



TITLE:

ある種の実2次体の類数について (数論的関数の特性)

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CITATION:

棚橋, 勝美. ある種の実2次体の類数について (数論的関数の特性). 数理解析研究所講究録 1976, 274: 108-131

ISSUE DATE:

1976-07

URL:

<http://hdl.handle.net/2433/105970>

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ある種の実二次体の類数について

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§ 0. 序論

今夏、信州大学で行なわれた整数論研究会（非公式）の際、佐賀大の中原氏が

$$\Delta(a,b) = a^{2 \cdot 3^e} + 4b^{2 \cdot 3^e} \quad (ab > 1) \text{ が square-free} \\ \Rightarrow \mathbb{Q}(\sqrt{\Delta}) \text{ の ideal 類群 } \mathcal{I}(\Delta) \cong \mathbb{Z}/3^e\mathbb{Z}$$

を証明された。この命題をもっと一般化して、

(*) $\Delta(a,b) = a^{2^k} + 4b^{2^k} \quad (a,b > 1) \text{ square-free} \Rightarrow \mathcal{I}(\Delta) \cong \mathbb{Z}/k\mathbb{Z}$
が予想され、実際、幾つかの例は肯定的である。==では(*)
に於て $a=1$ なる場合、

定理 $\Delta = 4b^{2^k} + 1 \quad (2 \leq b \in \mathbb{Z}) \text{ square-free} \Rightarrow \mathcal{I}(\Delta) \cong \mathbb{Z}/k\mathbb{Z}$
が非常に簡単に証明できることを示す。

なお、(*)において $b=1$ の場合も同様に証明できるが、これは Weinberger [5] によって square-free の条件なしに、無限に多くの Δ に対して成り立つことが証明されている。また(*)には

含まれない形ではあるが

$$\Delta = a^{2k} + 1 \quad (3 \leq a, \text{odd}) \text{ square-free} \Rightarrow \mathcal{J}(\Delta) \subset \mathbb{Z}/k\mathbb{Z}$$

も同様に証明できるが、これは N.C. Ankeny と S. Chowla [1] によって別の証明がされていることを、講演後に知った。

§ 1. 類数の表について

ついでに、実二次体 $\mathbb{Q}(\sqrt{m})$ ($1 < m < 20000$) の類数の表を掲げておく。既に、何人かの人達がこの種の表を持っておられるけれど、講究録に載せておいた方が、多くの人にとって便利だと考えたからである。表中、類数に負号(-)がついているのは、基本単数のノルムが -1 であることを示す。この表めし方は、和田氏(上智大)にならった。また、 $m > 4000$ について $\mathbb{Q}(\sqrt{m})$ の類数が 0 になっているところは、 m が平方因子を持つことを示す。

計算は、 $1 < m < 3630$ を電々公社 DEMOS-E で行ない、実行時間約 1 分、以後を名古屋大学^型大学計算センター (FACOM) で行ない、約 110 分を要した。

既存の表としては Ince [2] に、 $1 < m < 2025$ について類数、基本単数及び (reduced な) ideal の表がある。上記和田氏は、(未公表) $1 < m < 13000$ について、基本単数のノルムの符号とともに計算されている。また $m \equiv 1 \pmod{4}$ なる素数 m に

いては, K.E.Kloss, M.Newman, E.Ordman [3] が $5 \leq m \leq 105269$,
 $1000033 \leq m \leq 1002569$, $5000077 \leq m \leq 5000161$ 及び 10000121
 $\leq m \leq 10001261$ について計算している。

§2. 定理の証明

定義 2 次体 $\mathbb{Q}(\sqrt{m})$ ($\mathbb{Z} \ni m > 0$, square-free) に対して,

$$\omega = \begin{cases} \sqrt{m} & m \equiv 2, 3 \pmod{4} \\ \frac{1+\sqrt{m}}{2} & m \equiv 1 \pmod{4} \end{cases}$$

とおく。 $\mathbb{Q}(\sqrt{m}) \ni \alpha$ は, $\alpha > 1$, $0 > \alpha' > -1$ (α' は α の共役) とき, reduced という。

次の補題はいずれも高木[4] による。

補題1 ideal $\alpha = [a, b+\omega]$ ($a | N(b+\omega)$) において, a を素数中に分解して, $a = p_1^{k_1} p_2^{k_2} \cdots p_n^{k_n}$ とすれば $\alpha = \mathfrak{p}_1^{k_1} \mathfrak{p}_2^{k_2} \cdots \mathfrak{p}_n^{k_n}$ ただし, $\mathfrak{p}_i = [p_i, b+\omega]$ ($i=1, 2, \dots, n$),

補題2 $\alpha_i = [a_i, b_i+\omega]$ ($a_i | N(b_i+\omega)$, $i=1, 2$) が同じ類に属する,

$$\Leftrightarrow \theta_i = \frac{b_i+\omega}{a_i} \quad (i=1, 2) \text{ とおくと, } \theta_2 \sim \theta_1 \text{ i.e. } \exists \begin{pmatrix} p & q \\ r & s \end{pmatrix} \in GL_2(\mathbb{Z}): \theta_2 = \frac{p\theta_1+q}{r\theta_1+s},$$

さて, $\alpha = [b, \frac{2b^k-1+\sqrt{D}}{2}]$ とおくと補題1 によって,

$$\alpha^j = [b^j, \frac{2b^j-1+\sqrt{D}}{2}] \quad (j=1, 2, \dots, k)$$

で, かつ, $\alpha^k = [b^k, \frac{2b^k-1+\sqrt{D}}{2}] = (\frac{2b^k-1+\sqrt{D}}{2})$ は単項 ideal であるが, 今の場合 $\alpha^j = [b^j, \frac{2b^j-1+\sqrt{D}}{2}]$ に対応する $\alpha_j = \frac{2b^j-1+\sqrt{D}}{2b^j}$ は, reduced ($j=1, 2, \dots, k$) で, その連分数展開は, よく知られて

いるように純循環的である。ところが $x = x_k = \frac{2b^k - 1 + \sqrt{\Delta}}{2b^k}$,

連分数展開は,

$$x = 1 + \frac{1}{x'}, \quad x' = \frac{1 + \sqrt{\Delta}}{2b^k} = 1 + \frac{1}{x''}, \quad x'' = \frac{2b^k - 1 + \sqrt{\Delta}}{2} = 2^{k-1} + \frac{1}{x}$$

だから, $x_j + x$ ($j=1, 2, \dots, k-1$)。故に補題3によって, (2)

属する類の位数は丁度 k である。(証了)

例 $b=2$, $\Delta = 4 \cdot 2^k + 1 = 2^{2k+2} + 1$

| k | 2 | 3 | 4 | 5 | 6 | 7 |
|----------|----|-----|---------------------|------|-------|-------|
| Δ | 65 | 257 | $1025=5^2 \cdot 41$ | 4097 | 16385 | 65537 |
| 類数 | 2 | 3 | | 10 | 12 | 21 |

参考文献

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- [5] P.J. Weinberger : Real Quadratic Fields with Class Numbers Divisible by n , J. of Number Theory 5 (1973)

実2次体 $\mathbb{Q}(\sqrt{m})$ ($m=i+j$) の類数

| $i \backslash j$ | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 11 | 13 | 14 | 15 | 17 | 18 | 19 |
|------------------|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|
| 0 | .. | -1 | 1 | -1 | 1 | 1 | .. | -2 | 1 | -1 | 1 | 2 | -1 | .. | 1 |
| 20 | 1 | 1 | 1 | .. | -2 | .. | -1 | 2 | 1 | 1 | 2 | 2 | -1 | 1 | 2 |
| 40 | -1 | 2 | 1 | .. | 1 | 1 | .. | .. | 2 | -1 | .. | 2 | 1 | -2 | 1 |
| 60 | -1 | 1 | .. | -2 | 2 | 1 | 1 | 2 | 1 | -1 | -2 | .. | 1 | 2 | 3 |
| 80 | .. | -4 | 1 | -2 | 1 | 2 | -1 | .. | 2 | 1 | 1 | 2 | -1 | .. | .. |
| 100 | -1 | 2 | 1 | 2 | -2 | 1 | -1 | 2 | 2 | -1 | 2 | 2 | .. | 1 | 2 |
| 120 | .. | -2 | 2 | .. | .. | 1 | 1 | -4 | 1 | 1 | 1 | .. | -1 | 2 | 1 |
| 140 | 1 | 3 | 2 | -4 | 2 | .. | -1 | .. | 1 | .. | 2 | 2 | -1 | 1 | 2 |
| 160 | 1 | .. | 1 | 2 | 1 | 1 | .. | -4 | .. | -1 | 2 | .. | 1 | 2 | 1 |
| 180 | -1 | 2 | 2 | -2 | 2 | 2 | .. | 2 | 1 | -1 | 2 | 4 | -1 | .. | 1 |
| 200 | 1 | -2 | 2 | 2 | 1 | .. | 1 | 4 | 1 | 1 | 1 | 2 | 1 | -2 | 4 |
| 220 | 2 | 2 | 3 | .. | -8 | 1 | -3 | 2 | 4 | -1 | .. | 6 | 1 | 2 | 1 |
| 240 | -1 | .. | .. | .. | 2 | 2 | 1 | .. | 1 | 1 | 3 | 4 | -3 | 2 | 2 |
| 260 | .. | 1 | 1 | -2 | 2 | 2 | -1 | .. | 1 | 2 | -4 | .. | -1 | 1 | .. |
| 280 | -1 | 2 | 1 | 2 | 2 | 2 | .. | -4 | 4 | -1 | .. | 2 | .. | -2 | 2 |
| 300 | 1 | 1 | 2 | 2 | .. | 1 | 1 | 2 | 1 | -1 | -2 | .. | -1 | 2 | 2 |
| 320 | 3 | 4 | 4 | .. | 3 | 2 | 1 | 4 | 1 | .. | 1 | 2 | -1 | .. | 2 |
| 340 | 1 | .. | .. | 2 | -6 | 1 | -1 | .. | .. | -1 | 2 | 2 | 2 | 1 | 3 |
| 360 | .. | -2 | .. | -2 | 2 | 1 | .. | -4 | 2 | -1 | 2 | .. | 2 | .. | 1 |
| 380 | 1 | 1 | 1 | 2 | 2 | .. | -1 | 4 | 2 | 1 | -2 | 2 | -1 | 1 | 8 |
| 400 | -5 | 2 | 2 | .. | 2 | 2 | -1 | 4 | 2 | 1 | .. | 2 | 1 | 2 | 1 |
| 420 | -1 | 1 | .. | .. | 2 | 6 | 2 | 2 | 1 | -1 | 4 | 4 | 1 | 4 | 5 |
| 440 | .. | -8 | 3 | -4 | 1 | 2 | -1 | .. | 2 | 1 | 1 | 4 | -1 | -2 | .. |
| 460 | -1 | 4 | 1 | 2 | 2 | 1 | 3 | 2 | 2 | 3 | 2 | .. | .. | 1 | 1 |
| 480 | -2 | 2 | 4 | -2 | .. | 1 | 1 | .. | 1 | -2 | 2 | .. | 1 | 2 | 5 |
| 500 | 1 | 1 | 1 | 4 | 6 | .. | -1 | 4 | 2 | .. | 4 | 2 | 1 | 2 | 2 |
| 520 | -1 | .. | 1 | .. | 1 | 2 | .. | -4 | .. | -2 | 2 | 2 | 1 | -2 | .. |
| 540 | -1 | 1 | 2 | 2 | 4 | 1 | .. | .. | 2 | 1 | -2 | 4 | -1 | .. | 2 |
| 560 | 2 | 2 | 1 | -2 | 1 | .. | -1 | 4 | 1 | 1 | 6 | .. | -7 | .. | 4 |
| 580 | 1 | 4 | 2 | .. | -2 | 1 | 1 | 2 | 2 | -1 | .. | 4 | 1 | 2 | 1 |
| 600 | -1 | 2 | .. | .. | 2 | 1 | 2 | -4 | 2 | -1 | 1 | 4 | -1 | 2 | 1 |
| 620 | .. | 1 | 2 | .. | -4 | 4 | -2 | .. | 1 | 1 | -2 | 2 | .. | 2 | .. |
| 640 | -1 | 2 | 1 | 2 | 8 | 1 | 1 | .. | 4 | -1 | 2 | 2 | .. | 4 | 3 |
| 660 | -1 | 1 | 4 | 2 | .. | 2 | 1 | 2 | 2 | -1 | 4 | .. | -1 | 2 | 2 |
| 680 | 1 | 2 | 1 | -2 | .. | 2 | 4 | 4 | 1 | .. | 1 | 2 | -6 | -2 | 2 |
| 700 | -1 | .. | 2 | 2 | 4 | 2 | -1 | 2 | .. | 1 | 4 | 4 | 1 | 1 | 1 |
| 720 | 1 | .. | 4 | .. | .. | 5 | .. | -12 | 4 | -3 | 1 | .. | 1 | .. | 1 |
| 740 | 2 | 2 | 1 | 2 | -2 | .. | 1 | .. | 1 | 1 | -4 | 2 | -1 | 1 | 4 |
| 760 | -3 | 2 | 2 | .. | 1 | 2 | -1 | 4 | 2 | -1 | .. | .. | 4 | -2 | 2 |
| 780 | 1 | 2 | .. | -6 | 6 | 1 | 1 | 2 | 4 | 4 | -2 | 4 | -1 | 4 | 8 |
| 800 | .. | 2 | 2 | 2 | 2 | 2 | -1 | .. | 1 | 1 | 2 | 2 | 5 | -4 | .. |
| 820 | -1 | 2 | 1 | .. | 2 | 1 | -1 | 2 | 2 | .. | 2 | 2 | .. | 1 | 3 |
| 840 | .. | -6 | 2 | .. | .. | .. | 1 | .. | 2 | -1 | 2 | .. | -1 | 4 | 1 |
| 860 | 2 | 1 | 1 | -2 | 2 | .. | 1 | 8 | 2 | .. | 6 | .. | -1 | 1 | 2 |
| 880 | -1 | .. | 1 | 2 | 1 | 1 | 1 | 4 | .. | 1 | 6 | 6 | 4 | 6 | 6 |
| 900 | -4 | 2 | 4 | 4 | 6 | 1 | .. | 8 | 1 | 1 | -4 | 4 | 1 | .. | 1 |
| 920 | 1 | -2 | 2 | .. | 1 | .. | -1 | 4 | .. | 1 | 3 | 4 | -1 | 2 | 4 |
| 940 | -1 | 2 | 4 | .. | 2 | 1 | -2 | .. | 2 | -1 | .. | 2 | 2 | 1 | 4 |
| 960 | .. | -4 | .. | -2 | 4 | 1 | 2 | -4 | 1 | 1 | 1 | .. | -1 | 2 | 4 |
| 980 | .. | 5 | 1 | -6 | -4 | 4 | 1 | .. | 1 | 3 | 8 | 2 | -1 | 1 | .. |

| $i \backslash j$ | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 11 | 13 | 14 | 15 | 17 | 18 | 19 |
|------------------|----|-----|----|----|-----|----|----|-----|----|----|-----|----|-----|----|----|
| 1000 | 2 | 2 | 4 | 2 | 1 | 2 | -7 | -4 | 4 | -1 | .. | 4 | .. | -2 | 1 |
| 1020 | -1 | 2 | 8 | .. | .. | 2 | .. | 2 | 1 | -1 | 2 | .. | -2 | 2 | 1 |
| 1040 | 1 | -4 | 2 | 4 | 1 | 2 | -1 | .. | 1 | .. | 2 | 2 | 1 | .. | 2 |
| 1060 | -1 | .. | 1 | 2 | -4 | 4 | -1 | 2 | .. | -2 | 2 | .. | 1 | .. | 2 |
| 1080 | 1 | -2 | .. | 2 | 6 | 7 | .. | -12 | 3 | -5 | 1 | 4 | -1 | .. | 2 |
| 1100 | 3 | 2 | 1 | -4 | 4 | .. | -1 | 4 | 10 | 2 | -2 | 2 | -1 | 2 | 2 |
| 1120 | 1 | 8 | 1 | .. | 5 | .. | -9 | -4 | 4 | 1 | .. | 2 | 1 | -4 | 4 |
| 1140 | 1 | 1 | .. | -4 | 2 | 2 | 1 | .. | 1 | -1 | 4 | 8 | -2 | 4 | 2 |
| 1160 | .. | 2 | 1 | -2 | 2 | 2 | 1 | .. | 3 | 2 | 1 | .. | 1 | 2 | .. |
| 1180 | -1 | 2 | .. | 2 | 4 | 1 | -2 | 4 | 6 | -1 | 2 | 2 | .. | 1 | 2 |
| 1200 | -1 | 2 | 2 | 2 | .. | 2 | 2 | .. | 6 | -1 | 1 | .. | -1 | 4 | 2 |
| 1220 | 4 | 2 | 3 | .. | -10 | 4 | -3 | 4 | 1 | .. | 2 | 4 | -1 | 1 | 8 |
| 1240 | -2 | .. | 4 | 2 | 2 | 2 | -1 | .. | .. | 1 | 4 | 2 | 3 | -4 | 1 |
| 1260 | -2 | 1 | 2 | 2 | 2 | 2 | .. | 2 | 4 | 1 | .. | .. | -1 | .. | 1 |
| 1280 | 2 | 2 | 1 | -2 | 1 | .. | -1 | 8 | 1 | 1 | 7 | 4 | -11 | 2 | 8 |
| 1300 | -1 | 4 | 1 | .. | -2 | 1 | 2 | 2 | 4 | -4 | .. | 2 | 1 | 1 | 1 |
| 1320 | -1 | -2 | .. | .. | 4 | 5 | 1 | 4 | .. | 4 | 2 | 4 | 1 | 2 | 6 |
| 1340 | .. | 6 | 2 | 6 | 2 | 2 | 1 | .. | 8 | 2 | -2 | 2 | 1 | 2 | .. |
| 1360 | -1 | 2 | 2 | 4 | 1 | 3 | .. | -4 | 4 | -3 | 2 | .. | .. | -4 | 2 |
| 1380 | -1 | 1 | 2 | -2 | .. | 4 | 1 | 2 | 2 | 5 | 4 | .. | 1 | 2 | 1 |
| 1400 | 1 | -2 | 2 | 2 | 6 | 4 | -1 | 4 | 4 | .. | 2 | 2 | -2 | -2 | 4 |
| 1420 | .. | .. | 1 | .. | 4 | 1 | -5 | 4 | .. | -1 | 2 | 4 | 1 | 1 | 1 |
| 1440 | 1 | 4 | 8 | .. | 8 | 1 | .. | .. | 1 | -1 | 1 | 4 | 1 | .. | 1 |
| 1460 | 1 | 4 | 4 | -2 | -2 | .. | 2 | .. | 1 | 1 | 2 | .. | 1 | 3 | 4 |
| 1480 | -1 | 4 | 1 | .. | 5 | 1 | -3 | -4 | 4 | -1 | .. | 12 | 1 | 2 | 1 |
| 1500 | 1 | 1 | .. | 2 | 2 | 4 | 3 | 2 | 1 | 2 | -2 | 4 | 2 | 4 | .. |
| 1520 | .. | -12 | 3 | .. | 2 | 6 | 1 | .. | 1 | 2 | 14 | 2 | 2 | 2 | .. |
| 1540 | 1 | 2 | 1 | 2 | -6 | 4 | -1 | .. | 4 | -1 | 4 | 2 | .. | 2 | 1 |
| 1560 | 1 | 2 | 2 | -2 | .. | 3 | 1 | -4 | 1 | .. | 1 | .. | 1 | 2 | 1 |
| 1580 | 2 | 4 | 1 | -2 | -4 | .. | 1 | 8 | 2 | .. | -2 | 4 | -1 | 4 | 12 |
| 1600 | -7 | .. | 2 | 2 | 2 | 1 | -1 | 4 | .. | -1 | 2 | 4 | .. | -4 | 1 |
| 1620 | -1 | 1 | 2 | .. | 2 | 3 | .. | 2 | 4 | 1 | 2 | 4 | -1 | .. | 6 |
| 1640 | 5 | -2 | 2 | 2 | 3 | .. | -2 | .. | 2 | 2 | 9 | 2 | -1 | -2 | 4 |
| 1660 | 1 | 2 | 1 | .. | .. | 1 | -1 | 2 | 2 | 1 | .. | .. | 4 | 1 | 4 |
| 1680 | .. | .. | .. | -2 | 2 | 2 | 1 | .. | 2 | -1 | .. | 4 | -1 | 2 | 1 |
| 1700 | .. | 2 | 2 | 8 | -2 | 2 | -1 | .. | 2 | 1 | -12 | .. | 2 | 1 | .. |
| 1720 | -1 | 4 | 1 | .. | 1 | 2 | 2 | -4 | 4 | -1 | .. | 6 | .. | 2 | 2 |
| 1740 | -1 | 2 | 8 | -4 | .. | 1 | 2 | .. | 4 | -1 | -2 | .. | 1 | 6 | 1 |
| 1760 | 7 | 4 | 4 | -6 | 5 | 4 | -2 | 4 | 12 | .. | 1 | .. | -1 | 4 | 2 |
| 1780 | -2 | .. | 1 | 8 | 2 | 3 | -1 | 2 | .. | 1 | 4 | 2 | 1 | 2 | 2 |
| 1800 | -1 | 4 | 4 | .. | 12 | 2 | .. | -4 | 3 | .. | 1 | .. | 1 | .. | 2 |
| 1820 | 1 | 1 | 1 | .. | 2 | .. | 1 | 4 | 1 | 2 | 2 | 2 | 1 | 1 | 2 |
| 1840 | 1 | 2 | 2 | .. | 2 | 3 | .. | .. | 6 | -2 | .. | 4 | 1 | 2 | .. |
| 1860 | -1 | .. | .. | -2 | 6 | 1 | 2 | 4 | 1 | -1 | 2 | .. | -1 | 4 | 1 |
| 1880 | .. | -6 | 2 | 4 | 4 | 4 | -1 | .. | 2 | 1 | 1 | 2 | 5 | -4 | .. |
| 1900 | -3 | 2 | 2 | 2 | -4 | 3 | 1 | 2 | .. | -1 | 8 | 2 | .. | 4 | 2 |
| 1920 | -2 | .. | 2 | .. | .. | 2 | 3 | -4 | 1 | -1 | 7 | .. | -6 | 4 | 2 |
| 1940 | 1 | 1 | 2 | 2 | 2 | 8 | -1 | .. | 1 | .. | 6 | 4 | 3 | 4 | 2 |
| 1960 | 2 | .. | 2 | 2 | 1 | 4 | 1 | -4 | .. | -1 | 4 | .. | 1 | 2 | 1 |
| 1980 | 1 | 1 | 2 | -2 | 2 | 3 | .. | 2 | 2 | -1 | -2 | 8 | -1 | .. | 1 |

| $i \setminus j$ | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 11 | 13 | 14 | 15 | 17 | 18 | 19 |
|-----------------|----|-----|----|-----|-----|----|----|----|----|----|----|----|----|----|----|
| 2000 | 2 | 4 | 1 | 4 | 4 | .. | .. | 8 | 1 | 2 | 2 | 4 | -1 | 2 | 8 |
| 2020 | 3 | 4 | .. | .. | -14 | 5 | -7 | 4 | 10 | 1 | .. | 8 | 2 | 1 | 1 |
| 2040 | 2 | -2 | .. | 2 | 4 | 2 | 1 | .. | 2 | -1 | 2 | 12 | .. | .. | 2 |
| 2060 | .. | 1 | 1 | 2 | 2 | 4 | -1 | .. | 2 | 1 | -4 | .. | 1 | 1 | .. |
| 2080 | -5 | 2 | 1 | 2 | 2 | 1 | -3 | 4 | 4 | 2 | 2 | 2 | .. | 2 | 3 |
| 2100 | 3 | 1 | 2 | 2 | .. | .. | 2 | 2 | 1 | -1 | 4 | .. | -2 | 6 | 2 |
| 2120 | 2 | -2 | 2 | .. | 1 | 2 | -1 | 4 | 1 | .. | 8 | 4 | -1 | -2 | 12 |
| 2140 | -1 | .. | 3 | 4 | -4 | 2 | 1 | .. | .. | -5 | 2 | 2 | 1 | 2 | 4 |
| 2160 | -1 | 4 | 4 | -2 | .. | 2 | .. | 12 | 2 | -2 | 1 | .. | 3 | .. | 1 |
| 2180 | 1 | 1 | 2 | 2 | -2 | .. | 1 | 4 | 2 | 2 | 2 | 2 | .. | 2 | 2 |
| 2200 | 1 | 2 | 1 | .. | 1 | 3 | .. | -8 | 8 | -3 | .. | 2 | 1 | -2 | 2 |
| 2220 | -1 | 2 | .. | .. | 4 | 2 | 1 | 6 | 2 | 6 | -2 | 4 | -1 | 2 | 1 |
| 2240 | .. | 2 | 1 | 2 | 1 | 4 | -4 | .. | 7 | 1 | .. | 4 | -2 | -4 | .. |
| 2260 | 2 | 4 | 6 | 2 | 2 | 1 | -1 | 2 | 2 | -1 | 2 | .. | .. | 4 | 2 |
| 2280 | -1 | 2 | 2 | -2 | .. | 1 | 4 | -4 | 2 | -1 | 2 | .. | -1 | 6 | .. |
| 2300 | 2 | 7 | .. | -16 | 4 | 4 | -1 | 8 | 1 | .. | -4 | 2 | 1 | 2 | 2 |
| 2320 | 1 | .. | 2 | .. | 1 | 2 | 2 | -4 | .. | -1 | 2 | 10 | 2 | 4 | 1 |
| 2340 | -1 | 1 | 4 | 2 | 4 | 1 | .. | .. | 1 | 2 | 2 | 4 | -1 | .. | 4 |
| 2360 | 1 | -10 | 2 | 2 | .. | .. | 1 | 4 | 1 | 2 | 1 | .. | -1 | -4 | 8 |
| 2380 | -1 | 2 | 1 | .. | 2 | 4 | -1 | 2 | 2 | -1 | .. | 2 | 2 | 2 | 5 |
| 2400 | .. | -8 | .. | -4 | 2 | 2 | 2 | 8 | 1 | 1 | 2 | 8 | -1 | 4 | 12 |
| 2420 | .. | 2 | 1 | .. | -2 | 2 | 3 | .. | 4 | 1 | 8 | 2 | -1 | 2 | .. |
| 2440 | -1 | 4 | 2 | 2 | 1 | 1 | 1 | .. | 8 | 1 | 4 | 2 | .. | -2 | 3 |
| 2460 | 1 | 1 | 2 | -4 | .. | 7 | 1 | 4 | 2 | -1 | -2 | .. | -1 | 4 | 2 |
| 2480 | 1 | -8 | 2 | 2 | 4 | 2 | 1 | 8 | 2 | .. | 2 | 6 | 1 | 4 | .. |
| 2500 | -4 | .. | 1 | 6 | 2 | 2 | -2 | 6 | .. | 1 | 2 | 2 | 1 | 1 | 2 |
| 2520 | -1 | -4 | .. | .. | 2 | .. | .. | 4 | 1 | 4 | 2 | .. | 1 | .. | 1 |
| 2540 | .. | 4 | 3 | -4 | 2 | .. | -1 | .. | 1 | 2 | -6 | 4 | -3 | 1 | 2 |
| 2560 | -2 | 4 | 2 | .. | 1 | 4 | 1 | -4 | 2 | 1 | .. | .. | 1 | 2 | 1 |
| 2580 | -2 | 1 | .. | 2 | 2 | 2 | 3 | 4 | 1 | -1 | 2 | 4 | .. | 4 | 14 |
| 2600 | .. | -10 | 4 | -8 | 1 | 4 | -1 | .. | 2 | 2 | 1 | 2 | -1 | 4 | .. |
| 2620 | -1 | 4 | 2 | .. | -4 | 2 | 1 | 2 | 2 | -1 | 2 | 12 | .. | 3 | 4 |
| 2640 | 1 | -4 | 2 | .. | .. | 1 | 1 | .. | 2 | 1 | 1 | .. | -1 | 2 | 3 |
| 2660 | 1 | .. | 1 | -4 | 6 | 4 | 4 | 4 | 1 | .. | 4 | .. | -3 | 6 | 4 |
| 2680 | 1 | .. | 1 | 2 | 2 | 1 | -1 | -4 | .. | -1 | 2 | .. | 2 | 2 | 1 |
| 2700 | 2 | 4 | 12 | -8 | 8 | 1 | .. | 2 | 3 | -3 | 2 | 4 | 2 | .. | 1 |
| 2720 | 1 | 2 | 2 | .. | 6 | .. | -1 | 8 | 1 | 1 | 1 | 2 | 2 | .. | 8 |
| 2740 | -1 | 4 | 2 | .. | -2 | 2 | -1 | .. | 8 | -1 | .. | 12 | 1 | 6 | 2 |
| 2760 | 1 | -2 | .. | 2 | 2 | 1 | 2 | -4 | 2 | 1 | 4 | .. | -3 | 2 | 2 |
| 2780 | .. | 2 | .. | -2 | 4 | 2 | -1 | .. | 1 | .. | 2 | 4 | -1 | 1 | .. |
| 2800 | -1 | 2 | 1 | 4 | 2 | 4 | .. | -8 | 8 | -2 | 4 | 2 | .. | 2 | 1 |
| 2820 | 2 | 4 | 2 | .. | .. | 4 | 2 | 2 | 6 | -1 | -4 | .. | -1 | 4 | 2 |
| 2840 | 1 | .. | 1 | 2 | 1 | 4 | 4 | .. | 1 | .. | 1 | 2 | -3 | -2 | 2 |
| 2860 | -1 | .. | 2 | 2 | 2 | 2 | 1 | 4 | .. | .. | 2 | .. | 2 | 5 | 1 |
| 2880 | 1 | 2 | .. | -2 | 4 | 1 | .. | .. | .. | 1 | 3 | 4 | -1 | .. | 2 |
| 2900 | 1 | 3 | 1 | 2 | -2 | .. | -1 | 4 | 2 | 7 | 12 | 8 | -3 | 3 | 8 |
| 2920 | 1 | 6 | 2 | .. | 4 | 1 | -2 | -4 | 2 | 1 | .. | 2 | 2 | 4 | 1 |
| 2940 | -6 | 1 | .. | 4 | 2 | 2 | 1 | .. | 2 | -1 | 2 | 4 | -1 | 4 | 2 |
| 2960 | .. | 6 | 1 | -2 | 1 | 4 | -1 | .. | 3 | 1 | 1 | .. | -2 | 2 | .. |
| 2980 | 3 | 4 | 2 | 2 | -10 | 2 | .. | 4 | 2 | 6 | 2 | 2 | .. | 1 | 1 |

| $i \backslash j$ | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 11 | 13 | 14 | 15 | 17 | 18 | 19 |
|------------------|-----|-----|----|----|-----|----|----|-----|----|----|----|----|----|----|----|
| 3000 | -1 | 2 | 8 | 2 | .. | 4 | 2 | 4 | 1 | 1 | 8 | .. | 1 | 2 | 1 |
| 3020 | 6 | 1 | 3 | .. | -16 | 4 | -4 | 8 | 2 | .. | 4 | 6 | -1 | .. | 2 |
| 3040 | -1 | .. | 4 | 4 | 1 | 6 | -1 | .. | .. | 1 | 6 | 4 | 1 | 2 | 4 |
| 3060 | -1 | 3 | 2 | -2 | 4 | 1 | .. | 2 | 6 | 1 | -4 | .. | -2 | .. | 1 |
| 3080 | 8 | 2 | 1 | -2 | 1 | .. | -1 | 4 | 2 | 1 | 4 | 2 | 1 | -2 | 4 |
| 3100 | 1 | 4 | 2 | .. | 4 | 2 | -1 | 2 | 4 | 1 | .. | 4 | 1 | 1 | 1 |
| 3120 | -5 | 4 | .. | .. | 2 | 2 | 10 | -4 | 2 | -2 | 5 | 8 | -9 | 6 | 2 |
| 3140 | .. | 1 | 4 | -4 | .. | 2 | 1 | .. | 2 | 1 | 2 | 2 | 2 | 3 | .. |
| 3160 | -4 | 4 | 3 | 2 | 3 | 1 | -1 | -4 | 4 | 3 | .. | .. | .. | 2 | .. |
| 3180 | -5 | 2 | 2 | .. | .. | 1 | 1 | 4 | 1 | 1 | -2 | .. | 1 | 4 | 4 |
| 3200 | 8 | -8 | 1 | 2 | 2 | 2 | -1 | 8 | .. | .. | 1 | 2 | -1 | 2 | 4 |
| 3220 | -3 | .. | 2 | .. | -2 | 2 | -3 | 4 | .. | -2 | .. | 2 | 2 | 5 | 2 |
| 3240 | 1 | -2 | 8 | 4 | 10 | 8 | .. | .. | 5 | -5 | 1 | 8 | -1 | .. | 1 |
| 3260 | 3 | 4 | 2 | -2 | 4 | .. | 1 | 4 | 1 | 1 | -2 | .. | -2 | 2 | 2 |
| 3280 | -6 | 2 | .. | .. | 2 | 6 | 2 | 4 | 2 | -2 | .. | 2 | 2 | 8 | 1 |
| 3300 | -1 | 2 | .. | 6 | 16 | 1 | 1 | 2 | 4 | -1 | -4 | 8 | 1 | 4 | 1 |
| 3320 | .. | 2 | 1 | .. | 1 | 2 | -1 | .. | 1 | 2 | 1 | 4 | 1 | -2 | .. |
| 3340 | -4 | 2 | 1 | 2 | 4 | 1 | -2 | .. | 2 | 1 | 4 | 4 | .. | 4 | 1 |
| 3360 | -1 | .. | 8 | -2 | .. | 4 | 1 | -4 | 1 | -1 | 2 | .. | 1 | 2 | 10 |
| 3380 | .. | 2 | 2 | -2 | -2 | 4 | -1 | 4 | 3 | .. | 6 | 4 | 1 | 1 | 8 |
| 3400 | 1 | .. | 8 | 2 | 2 | 1 | 1 | 4 | .. | -1 | 2 | 2 | 2 | -2 | 6 |
| 3420 | 1 | 6 | 4 | .. | 2 | 2 | .. | .. | 2 | -1 | -8 | 4 | 1 | .. | 2 |
| 3440 | 2 | 6 | 4 | -4 | 1 | .. | -1 | .. | 4 | 1 | 2 | 2 | -1 | 4 | 4 |
| 3460 | -1 | 4 | 1 | .. | -2 | 1 | -1 | 2 | 4 | 1 | .. | .. | 4 | 2 | .. |
| 3480 | .. | -6 | .. | -4 | 4 | 2 | 1 | -4 | 1 | 1 | 1 | 4 | 2 | 4 | 1 |
| 3500 | .. | 4 | 4 | 2 | 2 | 4 | .. | .. | 1 | 1 | 6 | 4 | -1 | 1 | .. |
| 3520 | 1 | 2 | 2 | .. | 8 | 1 | -1 | -4 | 8 | -1 | 4 | 4 | .. | -4 | 1 |
| 3540 | -1 | 4 | 2 | -4 | .. | 1 | .. | .. | 2 | 2 | -8 | .. | -1 | 2 | 1 |
| 3560 | 1 | -4 | 2 | 2 | 1 | 4 | 3 | 8 | 1 | .. | 3 | .. | .. | -2 | 6 |
| 3580 | -1 | .. | 1 | 10 | 2 | 2 | -2 | 6 | .. | -1 | 6 | 14 | 2 | 10 | 10 |
| 3600 | -20 | 6 | 4 | 2 | 12 | 1 | .. | .. | 2 | -1 | 2 | 8 | -1 | .. | 4 |
| 3620 | 2 | 1 | 1 | .. | .. | .. | 1 | .. | 1 | 2 | 4 | 2 | -1 | 2 | 2 |
| 3640 | 1 | 2 | 1 | .. | 1 | 2 | -2 | .. | 2 | -2 | .. | 4 | 2 | 2 | 1 |
| 3660 | 1 | 1 | .. | -2 | 4 | 6 | 1 | 6 | 1 | -1 | 2 | .. | -1 | 2 | 14 |
| 3680 | .. | 8 | 2 | 2 | 2 | 2 | 2 | .. | 1 | 1 | 1 | 2 | -1 | .. | .. |
| 3700 | -1 | 2 | .. | 4 | -12 | 2 | -1 | 4 | 2 | 1 | 2 | 2 | .. | .. | 9 |
| 3720 | .. | -10 | 4 | .. | .. | 1 | 2 | -4 | 4 | -1 | 1 | .. | 2 | 4 | 3 |
| 3740 | 2 | 1 | 2 | 2 | 2 | 4 | 1 | .. | .. | .. | -2 | 2 | .. | 1 | 4 |
| 3760 | -1 | .. | 2 | 2 | 2 | 1 | -1 | -8 | .. | .. | 4 | .. | 1 | 4 | 1 |
| 3780 | 1 | 10 | 4 | -2 | 2 | 2 | .. | 2 | 4 | -1 | 4 | 8 | -1 | .. | 2 |
| 3800 | 2 | -2 | 3 | 4 | 2 | .. | -2 | 4 | 14 | 2 | 5 | 4 | 1 | 2 | 8 |
| 3820 | -1 | .. | 1 | .. | 2 | 2 | 1 | 2 | 2 | -1 | .. | 4 | 1 | 2 | 2 |
| 3840 | 1 | 4 | .. | -4 | 6 | 1 | 1 | .. | 1 | -1 | 2 | 4 | 2 | 2 | 6 |
| 3860 | .. | 1 | 1 | -2 | -2 | 2 | -2 | .. | .. | 3 | -4 | .. | -3 | 2 | .. |
| 3880 | -1 | 2 | 8 | 4 | 2 | .. | -3 | -4 | 4 | 2 | 8 | 4 | .. | -6 | 2 |
| 3900 | 1 | 1 | 2 | 4 | .. | 1 | 1 | 4 | 1 | 2 | 2 | .. | -1 | 2 | 1 |
| 3920 | 1 | -4 | 1 | .. | 2 | 8 | -1 | 4 | 1 | .. | 4 | 2 | 1 | 2 | 4 |
| 3940 | 3 | .. | 1 | 2 | -2 | 1 | 1 | .. | .. | 1 | 2 | 12 | 3 | 3 | 2 |
| 3960 | -2 | 6 | 8 | 4 | 10 | 5 | .. | -20 | .. | -6 | 1 | .. | -2 | .. | 2 |
| 3980 | 3 | 2 | 4 | -2 | -4 | .. | -1 | 8 | 2 | .. | -2 | 4 | 5 | 1 | 8 |

| $i \setminus j$ | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 11 | 12 | 14 | 15 | 17 | 18 | 19 |
|-----------------|----|-----|----|----|-----|----|----|----|----|----|-----|----|-----|----|----|
| 4000 | -3 | 4 | 1 | 0 | 1 | 1 | 11 | 4 | 12 | -1 | 0 | 4 | 4 | 0 | 1 |
| 4020 | -1 | 1 | 0 | 0 | 4 | 1 | 2 | 4 | 2 | -2 | 2 | 4 | 1 | 4 | 2 |
| 4040 | 0 | 2 | 2 | -4 | 0 | 4 | -1 | 0 | 1 | 4 | 1 | 2 | -1 | -2 | 0 |
| 4060 | 1 | 2 | 8 | 6 | 2 | 0 | 2 | 4 | 4 | -1 | 4 | 0 | 0 | 1 | 1 |
| 4080 | 4 | -4 | 2 | 2 | 0 | 2 | 2 | 4 | 1 | -1 | 6 | 0 | -10 | 6 | 1 |
| 4100 | 1 | 2 | 2 | 2 | -6 | 0 | 1 | 4 | 1 | 0 | 0 | 2 | 1 | 2 | 2 |
| 4120 | -2 | 0 | 4 | 0 | 1 | 1 | -1 | 4 | 0 | -1 | 4 | 2 | 2 | -2 | 7 |
| 4140 | -2 | 2 | 2 | 2 | 2 | 4 | 0 | 0 | 6 | -1 | 2 | 4 | -1 | 0 | 3 |
| 4160 | 8 | 2 | 2 | 0 | 1 | 0 | 1 | 4 | 12 | 4 | 1 | 0 | -1 | 2 | 4 |
| 4180 | -2 | 4 | 4 | 0 | 4 | 2 | 1 | 2 | 4 | 3 | 0 | 2 | 1 | 1 | 8 |
| 4200 | -1 | 2 | 0 | 0 | 2 | 2 | 2 | -4 | 1 | 1 | 0 | 12 | -1 | 4 | 1 |
| 4220 | 0 | 1 | 4 | 0 | -8 | 6 | -7 | 0 | 1 | 2 | -4 | 0 | 1 | 6 | 0 |
| 4240 | -1 | 4 | 1 | 2 | 2 | 2 | 1 | 0 | 16 | -1 | 2 | 4 | 0 | 4 | 1 |
| 4260 | -1 | 1 | 0 | -2 | 0 | 4 | 1 | 8 | 5 | -1 | -4 | 0 | 2 | 4 | 6 |
| 4280 | 3 | -2 | 3 | -2 | 3 | 2 | -1 | 8 | 2 | 0 | 6 | 2 | -1 | 2 | 2 |
| 4300 | 2 | 0 | 2 | 8 | -4 | 2 | 1 | 2 | 0 | 1 | 2 | 2 | 1 | 4 | 4 |
| 4320 | 10 | 2 | 8 | 0 | 4 | 1 | 0 | -4 | 2 | 1 | 10 | 0 | -1 | 0 | 1 |
| 4340 | 1 | 2 | 2 | 12 | -4 | 0 | -1 | 0 | 2 | 5 | 16 | 12 | -5 | 5 | 10 |
| 4360 | 0 | 6 | 1 | 0 | 2 | 6 | 2 | 4 | 4 | -1 | 0 | 0 | 1 | 14 | 2 |
| 4380 | 2 | 2 | 0 | -2 | 4 | 8 | 4 | 2 | 1 | 1 | 0 | 4 | -1 | 2 | 2 |
| 4400 | 0 | 4 | 4 | 2 | 1 | 4 | -9 | 0 | 4 | 1 | 1 | 2 | 1 | 0 | 0 |
| 4420 | -1 | 8 | 1 | 0 | -2 | 4 | 1 | 2 | 4 | 2 | 6 | 2 | 0 | 2 | 4 |
| 4440 | -5 | -2 | 2 | 2 | 0 | 1 | 1 | 0 | 1 | 2 | 2 | 0 | -1 | 2 | 0 |
| 4460 | 1 | 2 | 1 | 2 | 4 | 4 | -2 | 8 | 12 | 0 | -2 | 0 | 0 | 1 | 2 |
| 4480 | -3 | 0 | 1 | 4 | 1 | 4 | 0 | -8 | 0 | -3 | 4 | 4 | 1 | -4 | 2 |
| 4500 | 1 | 1 | 4 | -4 | 2 | 1 | 0 | 4 | 6 | -1 | -4 | 8 | -1 | 0 | 1 |
| 4520 | 2 | 4 | 1 | 0 | 2 | 0 | 1 | 4 | 2 | 1 | 9 | 2 | -2 | -2 | 4 |
| 4540 | 1 | 2 | 4 | 0 | 4 | 1 | -1 | 0 | 4 | -2 | 0 | 10 | 0 | 2 | 4 |
| 4560 | -1 | 2 | 0 | 2 | 2 | 1 | 1 | -4 | 2 | -2 | 1 | 0 | 1 | 4 | 14 |
| 4580 | 0 | 10 | 1 | 2 | -10 | 4 | -2 | 0 | 5 | 1 | -4 | 2 | -3 | 0 | 0 |
| 4600 | 1 | 4 | 1 | 2 | 0 | 8 | 1 | -4 | 4 | 1 | 4 | 4 | 0 | -2 | 2 |
| 4620 | -1 | 5 | 12 | 0 | 0 | 2 | 1 | 2 | 2 | 2 | 2 | 0 | -1 | 2 | 1 |
| 4640 | 12 | 2 | 1 | 2 | 2 | 2 | -3 | 0 | 3 | 0 | 2 | 0 | -1 | 8 | 2 |
| 4660 | 1 | 0 | 1 | 2 | -2 | 2 | 8 | 6 | 0 | -1 | 8 | 0 | 1 | 1 | 1 |
| 4680 | 1 | -2 | 4 | -2 | 4 | 2 | 0 | 4 | 1 | 0 | 1 | 4 | 2 | 0 | 6 |
| 4700 | 1 | 7 | 1 | 4 | -12 | 0 | -2 | 4 | 4 | 1 | -2 | 8 | 2 | 4 | 0 |
| 4720 | -1 | 2 | 1 | 0 | 2 | 2 | -3 | 4 | 4 | -1 | 0 | 2 | 1 | 8 | 2 |
| 4740 | 1 | 1 | 0 | -4 | 4 | 2 | 3 | 0 | 1 | 0 | -4 | 12 | 5 | 4 | 13 |
| 4760 | 0 | -22 | 4 | -6 | 1 | 8 | 1 | 0 | 6 | 2 | 4 | 0 | -4 | -6 | 0 |
| 4780 | -1 | 2 | 1 | 4 | 2 | 1 | -1 | 2 | 2 | -1 | 4 | 4 | 0 | 1 | 1 |
| 4800 | -1 | 0 | 2 | 0 | 0 | 16 | 2 | 16 | 2 | -1 | 2 | 0 | -1 | 4 | 2 |
| 4820 | 1 | 3 | 4 | 0 | 2 | 4 | 1 | 16 | 1 | 0 | 2 | 2 | 1 | 4 | 2 |
| 4840 | 3 | 0 | 10 | 4 | 1 | 2 | 2 | 0 | 0 | 3 | 2 | 2 | 3 | 2 | 2 |
| 4860 | -1 | 4 | 2 | 10 | 2 | 10 | 0 | 2 | 1 | 1 | -2 | 0 | -1 | 0 | 4 |
| 4880 | 1 | 2 | 2 | -2 | 6 | 0 | -5 | 8 | 4 | 2 | 1 | 8 | 1 | 4 | 16 |
| 4900 | 0 | 8 | 1 | 0 | 2 | 6 | -1 | 6 | 2 | 0 | 0 | 2 | 2 | 1 | 1 |
| 4920 | 2 | 2 | 0 | 0 | 2 | 6 | 2 | 8 | 1 | -3 | 3 | 8 | -1 | 2 | 12 |
| 4940 | 0 | 2 | 1 | 2 | 2 | 4 | 0 | 0 | 1 | 4 | -18 | 2 | -1 | 2 | 0 |
| 4960 | 0 | 2 | 2 | 2 | 0 | 1 | -1 | 12 | 8 | -1 | 2 | 0 | 0 | 2 | 2 |
| 4980 | 4 | 6 | 4 | -2 | 0 | 1 | 1 | 2 | 4 | -1 | 6 | 0 | 1 | 0 | 1 |

| $i \setminus j$ | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 11 | 13 | 14 | 15 | 17 | 18 | 19 |
|-----------------|----|-----|---|-----|-----|---|-----|-----|----|----|-----|----|-----|-----|----|
| 5000 | 1 | 8 | 1 | 4 | 1 | 2 | -1 | 4 | 3 | 0 | 2 | 4 | 2 | -4 | 4 |
| 5020 | -1 | 0 | 1 | 0 | 4 | 2 | 1 | 2 | 0 | 1 | 2 | 4 | 4 | 2 | 7 |
| 5040 | 0 | -12 | 0 | -4 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 4 | 2 | 0 | 1 |
| 5060 | 2 | 1 | 6 | -2 | 4 | 0 | 2 | 0 | 10 | 6 | 2 | 0 | -1 | 1 | 2 |
| 5080 | -3 | 0 | 4 | 0 | 1 | 1 | 3 | -4 | 2 | 1 | 0 | 6 | 1 | -18 | 3 |
| 5100 | -1 | 3 | 0 | 4 | 4 | 5 | 4 | 4 | 2 | -1 | -2 | 8 | 2 | 2 | 1 |
| 5120 | 0 | -4 | 2 | 0 | 2 | 2 | 1 | 0 | 6 | 2 | 4 | 8 | 1 | 4 | 0 |
| 5140 | 2 | 2 | 2 | 0 | 2 | 1 | 1 | 0 | 4 | -1 | 2 | 2 | 0 | 1 | 4 |
| 5160 | -2 | -4 | 2 | -2 | 0 | 1 | 1 | 4 | 1 | 1 | 2 | 0 | 1 | 6 | 1 |
| 5180 | 4 | 11 | 8 | -20 | 8 | 8 | -1 | 8 | 2 | 0 | 0 | 2 | -1 | 2 | 2 |
| 5200 | 1 | 0 | 0 | 2 | 4 | 4 | -1 | -8 | 0 | -2 | 4 | 4 | 4 | 2 | 8 |
| 5220 | 1 | 2 | 2 | 0 | 4 | 1 | 0 | 2 | 1 | -1 | -4 | 4 | -1 | 0 | 0 |
| 5240 | 5 | -2 | 0 | -4 | 2 | 0 | 8 | 0 | 2 | 2 | 2 | 6 | 1 | 2 | 4 |
| 5260 | -3 | 2 | 6 | 0 | -12 | 2 | 5 | 4 | 8 | -7 | 0 | 0 | 1 | 4 | 1 |
| 5280 | -3 | 2 | 0 | 2 | 2 | 2 | 2 | 0 | 4 | 1 | 1 | 4 | -3 | 2 | 2 |
| 5300 | 0 | 6 | 3 | -8 | 2 | 4 | -1 | 0 | 2 | 4 | 4 | 2 | -2 | 1 | 0 |
| 5320 | -2 | 2 | 1 | 0 | 1 | 6 | 0 | -8 | 12 | -3 | 4 | 4 | 0 | 4 | 2 |
| 5340 | 0 | 1 | 4 | 2 | 0 | 1 | 1 | 0 | 1 | -6 | -2 | 0 | 1 | 4 | 4 |
| 5360 | 1 | 4 | 2 | -4 | 1 | 2 | 6 | 4 | 4 | 0 | 1 | 0 | 1 | 4 | 8 |
| 5380 | -1 | 0 | 6 | 2 | -2 | 1 | -2 | 0 | 0 | -1 | 4 | 4 | 2 | 1 | 1 |
| 5400 | 1 | 8 | 4 | 2 | 4 | 1 | 0 | -4 | 2 | -1 | 1 | 0 | -7 | 0 | 1 |
| 5420 | 4 | 1 | 4 | 0 | -4 | 0 | -2 | 4 | 3 | 1 | 8 | 2 | -1 | 1 | 0 |
| 5440 | -1 | 2 | 1 | 0 | 2 | 2 | -1 | 0 | 4 | 2 | 0 | 2 | 2 | -4 | 2 |
| 5460 | 1 | 1 | 0 | -2 | 2 | 4 | 1 | 2 | 1 | -2 | 8 | 0 | -3 | 8 | 1 |
| 5480 | 0 | -2 | 1 | -2 | 2 | 4 | 1 | 0 | 0 | 1 | 2 | 4 | 3 | -2 | 0 |
| 5500 | -1 | 4 | 3 | 2 | 2 | 1 | 1 | 4 | 12 | 8 | 2 | 2 | 0 | 2 | 1 |
| 5520 | -9 | 2 | 4 | 0 | 0 | 5 | 6 | 4 | 1 | 1 | 1 | 0 | 0 | 4 | 2 |
| 5540 | 1 | 6 | 2 | -4 | 2 | 0 | 1 | 0 | 4 | 0 | -4 | 4 | -1 | 2 | 4 |
| 5560 | 1 | 0 | 1 | 4 | 0 | 2 | -1 | -4 | 0 | -1 | 2 | 0 | 0 | -6 | 2 |
| 5580 | -1 | 1 | 2 | -2 | 0 | 2 | 0 | 4 | 1 | 2 | -2 | 12 | -2 | 0 | 2 |
| 5600 | 1 | 2 | 2 | 4 | 1 | 0 | 1 | 8 | 10 | 3 | 8 | 10 | -2 | 0 | 12 |
| 5620 | 6 | 8 | 9 | 0 | -28 | 4 | -12 | 10 | 10 | 1 | 0 | 0 | 3 | 1 | 1 |
| 5640 | -1 | 4 | 0 | 2 | 2 | 1 | 2 | 0 | 1 | -1 | 4 | 8 | -1 | 4 | 1 |
| 5660 | 0 | 2 | 4 | 2 | 4 | 2 | -1 | 0 | 2 | 2 | -2 | 0 | 1 | 2 | 0 |
| 5680 | 2 | 2 | 3 | 6 | 1 | 0 | -1 | 4 | 4 | -1 | 4 | 4 | 0 | 4 | 4 |
| 5700 | -1 | 1 | 2 | 2 | 0 | 2 | 2 | 2 | 5 | -8 | 2 | 0 | -1 | 2 | 4 |
| 5720 | 1 | -6 | 2 | 0 | 2 | 4 | -2 | 4 | 4 | 0 | 14 | 4 | -1 | 6 | 2 |
| 5740 | -3 | 0 | 7 | 2 | 0 | 2 | -1 | 0 | 0 | 1 | 4 | 2 | 2 | 1 | 2 |
| 5760 | 1 | 2 | 4 | -2 | 0 | 4 | 0 | -4 | 2 | 1 | 5 | 0 | -10 | 0 | 1 |
| 5780 | 2 | 0 | 1 | -4 | 2 | 0 | 1 | 4 | 1 | 1 | 2 | 8 | 2 | 6 | 6 |
| 5800 | -1 | 2 | 2 | 0 | 1 | 1 | 4 | 4 | 4 | -1 | 0 | 2 | 4 | -2 | 0 |
| 5820 | -3 | 2 | 0 | 0 | 2 | 7 | 2 | 4 | 0 | 1 | -2 | 4 | -2 | 4 | 1 |
| 5840 | 0 | 4 | 1 | 2 | 2 | 2 | -1 | 0 | 1 | 3 | 1 | 2 | -1 | -4 | 0 |
| 5860 | -1 | 2 | 4 | 8 | 2 | 1 | -1 | 2 | 4 | 1 | 4 | 0 | 0 | 9 | 1 |
| 5880 | -1 | -4 | 4 | 2 | 0 | 0 | 2 | 4 | 2 | 1 | 2 | 0 | -1 | 6 | 2 |
| 5900 | 6 | 2 | 3 | 2 | -4 | 8 | 1 | 8 | 4 | 0 | -2 | 0 | 2 | 6 | 2 |
| 5920 | 1 | 0 | 1 | 0 | 1 | 5 | 0 | -12 | 0 | -4 | 4 | 2 | 1 | 6 | 1 |
| 5940 | -2 | 1 | 8 | 4 | 2 | 8 | 0 | 0 | 14 | -1 | -12 | 4 | 2 | 0 | 2 |
| 5960 | 1 | 2 | 4 | -2 | 2 | 0 | 1 | 4 | 2 | 4 | 14 | 0 | 1 | 0 | 4 |
| 5980 | -1 | 2 | 4 | 0 | 8 | 1 | 2 | 2 | 6 | -2 | 0 | 4 | 1 | 1 | 2 |

| i \ j | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 11 | 13 | 14 | 15 | 17 | 18 | 19 |
|-------|-----|-----|---|-----|-----|----|----|-----|----|----|-----|----|----|-----|----|
| 6000 | 4 | -4 | 0 | 2 | 16 | 1 | 1 | -8 | 1 | 1 | 8 | 4 | 1 | 4 | 2 |
| 6020 | 0 | 1 | 2 | 0 | 6 | 0 | -1 | 0 | 2 | 1 | 4 | 4 | -1 | 1 | 0 |
| 6040 | 1 | 8 | 1 | 4 | 1 | 1 | 1 | 0 | 4 | -3 | 4 | 4 | 0 | 12 | 2 |
| 6060 | 2 | 2 | 4 | -2 | 0 | 1 | 0 | 2 | 10 | -1 | -2 | 0 | 1 | 10 | 1 |
| 6080 | 11 | 6 | 8 | -10 | 8 | 10 | -1 | 8 | 1 | 0 | -2 | 4 | 14 | 2 | 8 |
| 6100 | -1 | 0 | 4 | 4 | 2 | 2 | -2 | 8 | 0 | -5 | 2 | 2 | 1 | 4 | 2 |
| 6120 | -1 | -2 | 8 | 0 | 2 | 2 | 0 | -4 | 1 | -3 | 1 | 8 | 0 | 0 | 2 |
| 6140 | 2 | 2 | 1 | -4 | 8 | 0 | 2 | 0 | 7 | 6 | -4 | 2 | 5 | 1 | 2 |
| 6160 | -2 | 12 | 1 | 0 | 1 | 2 | 1 | -4 | 0 | -1 | 0 | 0 | 2 | -16 | 2 |
| 6180 | 1 | 2 | 0 | -6 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 8 | -1 | 4 | 1 |
| 6200 | 0 | 10 | 1 | -4 | 2 | 2 | 3 | 0 | 1 | 2 | 2 | 4 | -1 | -2 | 0 |
| 6220 | -1 | 4 | 0 | 0 | 2 | 2 | -1 | 4 | 4 | 1 | 2 | 4 | 0 | 3 | 10 |
| 6240 | 0 | -8 | 6 | -4 | 0 | 1 | 1 | 0 | 4 | 0 | 2 | 0 | -1 | 4 | 2 |
| 6260 | 1 | 2 | 1 | 2 | -4 | 4 | -1 | 8 | 1 | 0 | -8 | 0 | -1 | 2 | 8 |
| 6280 | 1 | 0 | 2 | 2 | 4 | 1 | 3 | 8 | 0 | 2 | 10 | 2 | 1 | 2 | 1 |
| 6300 | -1 | 2 | 4 | -4 | 2 | 12 | 0 | 2 | 3 | 1 | 4 | 4 | -1 | 0 | 4 |
| 6320 | 0 | -4 | 1 | 0 | 1 | 0 | -1 | 4 | 2 | 1 | 3 | 4 | -1 | 2 | 4 |
| 6340 | 2 | 4 | 1 | 0 | 2 | 4 | 1 | 0 | 4 | -1 | 0 | 8 | 2 | 0 | 1 |
| 6360 | -1 | -2 | 0 | 2 | 6 | 1 | 2 | 0 | 2 | -1 | 1 | 0 | 1 | 2 | 1 |
| 6380 | 0 | 1 | 2 | -2 | 4 | 2 | -1 | 0 | 4 | 1 | 2 | 10 | -1 | 4 | 0 |
| 6400 | -12 | 8 | 2 | 4 | 1 | 2 | -8 | 8 | 4 | 0 | 6 | 2 | 0 | -4 | 0 |
| 6420 | -1 | 0 | 6 | 0 | 0 | 3 | 1 | 2 | 2 | 1 | 4 | 0 | -2 | 4 | 2 |
| 6440 | 2 | -2 | 2 | -4 | 2 | 8 | -1 | 0 | 1 | 0 | 2 | 2 | 1 | -2 | 2 |
| 6460 | 2 | 0 | 2 | 2 | -4 | 2 | -1 | 2 | 0 | -1 | 4 | 0 | 2 | 2 | 4 |
| 6480 | -5 | 4 | 4 | -2 | 16 | 2 | 0 | 4 | 1 | 1 | 4 | 4 | 4 | 0 | 6 |
| 6500 | 2 | 1 | 2 | 2 | -2 | 0 | 1 | 8 | 4 | 2 | 2 | 6 | 0 | 1 | 4 |
| 6520 | -1 | 2 | 2 | 0 | 2 | 2 | -1 | -4 | 4 | 1 | 0 | 2 | 1 | 2 | 2 |
| 6540 | 1 | 1 | 0 | 4 | 2 | 1 | 6 | 0 | 1 | -1 | -4 | 8 | 3 | 6 | 18 |
| 6560 | 0 | -16 | 5 | -8 | 0 | 8 | -1 | 0 | 3 | 2 | 10 | 0 | -1 | 4 | 0 |
| 6580 | -1 | 2 | 2 | 2 | -4 | 2 | 1 | 2 | 0 | 1 | 12 | 2 | 0 | 7 | 1 |
| 6600 | 6 | -2 | 4 | 2 | 0 | 1 | 1 | -4 | 2 | 2 | 1 | 0 | -2 | 2 | 1 |
| 6620 | 1 | 8 | 6 | 0 | -16 | 0 | 1 | 8 | 18 | 0 | 2 | 2 | -3 | 1 | 6 |
| 6640 | -2 | 0 | 4 | 2 | 1 | 0 | -4 | 0 | 0 | -1 | 2 | 0 | 2 | 2 | 1 |
| 6660 | -1 | 1 | 2 | 2 | 8 | 2 | 0 | 12 | 8 | -1 | 4 | 0 | 1 | 0 | 1 |
| 6680 | 6 | -8 | 8 | 6 | 3 | 0 | -1 | 4 | 1 | 2 | 1 | 4 | 2 | -4 | 8 |
| 6700 | -1 | 2 | 1 | 0 | 4 | 4 | -1 | 4 | 2 | 0 | 0 | 4 | 1 | 1 | 1 |
| 6720 | 2 | 6 | 0 | 0 | 3 | 0 | 1 | -4 | 2 | -1 | 4 | 4 | -1 | 2 | 2 |
| 6740 | 0 | 1 | 2 | 4 | -2 | 4 | -2 | 0 | 6 | 1 | 2 | 4 | -8 | 2 | 0 |
| 6760 | -1 | 0 | 1 | 4 | 6 | 2 | 1 | -12 | 8 | 2 | 8 | 0 | 0 | -2 | 5 |
| 6780 | -1 | 3 | 8 | 2 | 0 | 4 | 2 | 4 | 3 | -1 | 2 | 0 | 1 | 12 | 2 |
| 6800 | 1 | 2 | 1 | 4 | 12 | 6 | 9 | 8 | 0 | 0 | 1 | 4 | -2 | 4 | 6 |
| 6820 | 1 | 0 | 1 | 0 | -2 | 1 | -1 | 2 | 0 | -1 | 12 | 6 | 2 | 2 | 4 |
| 6840 | -1 | 2 | 4 | 0 | 4 | 2 | 0 | 0 | 4 | 2 | 10 | 4 | -1 | 0 | 0 |
| 6860 | 1 | 2 | 1 | -2 | -4 | 0 | -1 | 4 | 1 | 2 | 2 | 0 | 0 | 2 | 2 |
| 6880 | 1 | 4 | 1 | 0 | 4 | 6 | 0 | -16 | 10 | -4 | 0 | 4 | 0 | 2 | 1 |
| 6900 | 3 | 4 | 0 | 2 | 2 | 1 | 0 | 2 | 1 | 1 | 2 | 4 | -1 | 4 | 4 |
| 6920 | 0 | -2 | 4 | 0 | 1 | 6 | 0 | 0 | 2 | 1 | 1 | 4 | 1 | -2 | 0 |
| 6940 | 1 | 4 | 2 | 10 | 8 | 1 | -5 | 0 | 4 | -8 | 4 | 4 | 0 | 0 | 1 |
| 6960 | -1 | 0 | 4 | 2 | 0 | 1 | 2 | -8 | 1 | 1 | 2 | 0 | -1 | 2 | 2 |
| 6980 | 4 | 1 | 1 | 2 | 2 | 4 | -4 | 4 | 1 | 0 | -20 | 6 | -3 | 1 | 2 |

| $i \backslash j$ | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 11 | 13 | 14 | 15 | 17 | 18 | 19 |
|------------------|----|----|----|-----|-----|----|----|-----|----|----|----|----|-----|-----|----|
| 7000 | -1 | 0 | 2 | 2 | 12 | 0 | 1 | -4 | 0 | -1 | 12 | 4 | 1 | 0 | 3 |
| 7020 | 2 | 1 | 2 | 0 | 2 | 1 | 0 | 4 | 4 | -2 | -2 | 8 | 1 | 0 | 1 |
| 7040 | 1 | 16 | 1 | -4 | 2 | 0 | 10 | 0 | 8 | 3 | 17 | 12 | -21 | 6 | 5 |
| 7060 | 1 | 8 | 16 | 0 | -2 | 2 | -1 | 8 | 2 | 1 | 0 | 0 | 4 | 1 | 1 |
| 7080 | 2 | -2 | 0 | -4 | 2 | 2 | 2 | -4 | 2 | -4 | 1 | 8 | 1 | 0 | 2 |
| 7100 | 0 | 2 | 1 | 0 | 4 | 12 | -1 | 0 | 2 | 1 | -2 | 2 | 3 | 1 | 0 |
| 7120 | -1 | 2 | 2 | 0 | 6 | 1 | -1 | 4 | 4 | 1 | 4 | 2 | 0 | 2 | 0 |
| 7140 | -2 | 1 | 2 | 2 | 0 | 2 | 1 | 0 | 1 | 1 | 0 | 0 | 2 | 2 | 1 |
| 7160 | 4 | -2 | 4 | -2 | 1 | 2 | 1 | 4 | 2 | 0 | 2 | 0 | -1 | -4 | 2 |
| 7180 | 1 | 0 | 2 | 2 | -4 | 1 | 2 | 2 | 0 | -1 | 4 | 2 | 1 | 2 | 2 |
| 7200 | 1 | -4 | 0 | 4 | 4 | 1 | 0 | 4 | 1 | -1 | 1 | 8 | 1 | 0 | 1 |
| 7220 | 10 | 2 | 4 | 0 | -18 | 0 | -5 | 8 | 4 | 1 | 6 | 6 | -1 | 4 | 4 |
| 7240 | -2 | 12 | 1 | 0 | 1 | 1 | 3 | 0 | 2 | -1 | 0 | 2 | 2 | 2 | 12 |
| 7260 | -2 | 3 | 0 | -2 | 4 | 0 | 1 | 2 | 2 | 3 | -2 | 0 | 1 | 2 | 6 |
| 7280 | 0 | 10 | 1 | 2 | 1 | 4 | 4 | 0 | 2 | 4 | 2 | 2 | -1 | 4 | 0 |
| 7300 | 0 | 2 | 2 | 2 | -4 | 1 | -1 | 12 | 6 | 1 | 4 | 16 | 0 | 1 | 6 |
| 7320 | -1 | 2 | 2 | 0 | 0 | 2 | 2 | -20 | 5 | -1 | 2 | 0 | 2 | 2 | 10 |
| 7340 | 1 | 1 | 2 | -4 | 2 | 4 | -1 | 0 | 1 | 0 | -2 | 2 | 1 | 2 | 16 |
| 7360 | 2 | 0 | 2 | 2 | 2 | 2 | -1 | 4 | 0 | -2 | 6 | 0 | 1 | 8 | 2 |
| 7380 | 0 | 1 | 4 | 2 | 2 | 6 | 0 | 2 | 2 | -1 | 10 | 16 | -4 | 0 | 0 |
| 7400 | 1 | -2 | 2 | 2 | 0 | 0 | 1 | 8 | 1 | 2 | 2 | 6 | -1 | -2 | 4 |
| 7420 | -2 | 2 | 6 | 0 | 16 | 2 | 2 | 2 | 2 | -1 | 0 | 2 | 4 | 1 | 10 |
| 7440 | 3 | 0 | 0 | 2 | 4 | 2 | 8 | 0 | 1 | 6 | 1 | 8 | -1 | 4 | 3 |
| 7460 | 0 | 4 | 2 | -18 | -2 | 4 | 2 | 0 | 6 | 6 | -4 | 0 | -1 | 1 | 0 |
| 7480 | -3 | 8 | 2 | 2 | 2 | 1 | -1 | 4 | 8 | 1 | 4 | 2 | 0 | 2 | 1 |
| 7500 | -2 | 0 | 4 | 4 | 0 | 1 | 1 | 14 | 16 | 5 | 0 | 0 | -1 | 4 | 2 |
| 7520 | 2 | -8 | 1 | 0 | 2 | 4 | -1 | 4 | 4 | 0 | 1 | 4 | -3 | -4 | 4 |
| 7540 | -1 | 0 | 2 | 2 | 0 | 1 | -1 | 0 | 0 | 2 | 2 | 2 | 4 | 1 | 1 |
| 7560 | -1 | 2 | 8 | 4 | 12 | 12 | 0 | -20 | 10 | -9 | 2 | 0 | -1 | 0 | 4 |
| 7580 | 0 | 8 | 1 | -8 | 2 | 0 | -1 | 8 | 5 | 1 | -2 | 0 | 1 | 6 | 4 |
| 7600 | 3 | 4 | 1 | 0 | 1 | 1 | 1 | -8 | 4 | 1 | 0 | 2 | 1 | -4 | 2 |
| 7620 | -1 | 2 | 0 | 0 | 4 | 22 | 1 | 4 | 2 | -2 | 2 | 4 | 1 | 8 | 3 |
| 7640 | 0 | -2 | 3 | 4 | 1 | 2 | -1 | 0 | 2 | 1 | 2 | 6 | 2 | 6 | 0 |
| 7660 | 1 | 2 | 4 | 12 | 14 | 4 | -1 | 4 | 6 | -3 | 10 | 0 | 0 | 2 | 2 |
| 7680 | -1 | 4 | 4 | 4 | 0 | 1 | 2 | 12 | 1 | 0 | 3 | 0 | 1 | 2 | 1 |
| 7700 | 2 | 1 | 1 | 10 | -2 | 4 | -6 | 4 | 6 | 0 | 4 | 2 | -1 | 2 | 8 |
| 7720 | 3 | 0 | 1 | 0 | 3 | 1 | 1 | -4 | 0 | 2 | 2 | 8 | 1 | -4 | 2 |
| 7740 | -1 | 0 | 12 | -12 | 10 | 2 | 0 | 0 | 2 | -3 | -2 | 8 | -1 | 0 | 1 |
| 7760 | 4 | -4 | 2 | -2 | 8 | 0 | 2 | 8 | 2 | 1 | 0 | 0 | 2 | 2 | 8 |
| 7780 | 1 | 4 | 2 | 0 | 16 | 2 | -1 | 4 | 0 | -1 | 0 | 2 | 2 | 2 | 2 |
| 7800 | -2 | 2 | 0 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 1 | 4 | -5 | 2 | 2 |
| 7820 | 0 | 3 | 1 | 0 | 4 | 2 | -1 | 0 | 2 | 8 | -2 | 2 | -4 | 1 | 0 |
| 7840 | -1 | 2 | 4 | 2 | 3 | 8 | 1 | 0 | 4 | -1 | 8 | 2 | 0 | -12 | 2 |
| 7860 | 5 | 5 | 2 | 0 | 0 | 1 | 2 | 6 | 4 | -9 | 4 | 0 | -1 | 4 | 3 |
| 7880 | 12 | 2 | 3 | 2 | 1 | 4 | 0 | 4 | 18 | 0 | 1 | 2 | -4 | 2 | 2 |
| 7900 | -1 | 0 | 4 | 4 | 2 | 1 | 1 | 4 | 0 | -2 | 2 | 2 | 4 | 2 | 7 |
| 7920 | 0 | -8 | 8 | 0 | 4 | 1 | 0 | -8 | 4 | -1 | 1 | 0 | -1 | 0 | 4 |
| 7940 | 1 | 0 | 0 | 2 | -4 | 0 | -1 | 0 | 1 | 2 | 12 | 4 | 4 | 2 | 4 |
| 7960 | 1 | 2 | 1 | 0 | 16 | 4 | -2 | -4 | 2 | 2 | 0 | 0 | 1 | -2 | 2 |
| 7980 | 1 | 2 | 0 | -2 | 0 | 0 | 1 | 4 | 2 | -1 | 6 | 8 | 1 | 4 | 6 |

| | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 11 | 3 | 14 | 15 | 17 | 18 | 19 |
|------|-----|-----|----|-----|----|----|----|-----|----|----|-----|----|----|----|----|
| 8000 | 0 | 4 | 2 | -8 | 1 | 4 | -1 | 0 | 1 | 1 | 1 | 4 | -3 | 2 | 0 |
| 8020 | -2 | 4 | 10 | 0 | -2 | 2 | 2 | 4 | 2 | 2 | 4 | 2 | 0 | 1 | 1 |
| 8040 | 2 | -2 | 4 | 2 | 0 | 2 | 5 | 0 | 6 | -1 | 1 | 0 | 3 | 4 | 11 |
| 8060 | 1 | 2 | 2 | -2 | -4 | 4 | -3 | 3 | 2 | 0 | 10 | 0 | -4 | 2 | 2 |
| 8080 | -1 | 0 | 8 | 0 | 2 | 1 | -1 | 8 | 0 | -1 | 16 | 14 | 7 | 12 | 20 |
| 8100 | -13 | 5 | 8 | 6 | 8 | 0 | 0 | 22 | 1 | 6 | 2 | 12 | -1 | 0 | 4 |
| 8120 | 5 | 2 | 1 | 0 | 4 | 0 | 1 | 12 | 2 | 1 | 0 | 2 | 1 | 4 | 4 |
| 8140 | 1 | 8 | 2 | 0 | -4 | 1 | 4 | 0 | 8 | 1 | 0 | 4 | 1 | 1 | 2 |
| 8160 | -1 | 4 | 0 | 2 | 2 | 1 | 2 | 4 | 1 | 3 | 2 | 0 | -4 | 4 | 1 |
| 8180 | 0 | 1 | 0 | -14 | -2 | 2 | 1 | 0 | 1 | 1 | 8 | 4 | 1 | 1 | 0 |
| 8200 | 1 | 2 | 2 | 2 | 2 | 2 | -1 | -4 | 8 | 1 | 0 | 4 | 0 | 2 | 1 |
| 8220 | -1 | 1 | 2 | 0 | 0 | 6 | 8 | 2 | 1 | -1 | 2 | 0 | -1 | 2 | 4 |
| 8240 | 2 | -4 | 1 | -4 | 4 | 2 | -2 | 0 | 2 | 0 | 1 | 12 | 1 | 2 | 2 |
| 8260 | 1 | 0 | 1 | 4 | -6 | 6 | -1 | 2 | 0 | -1 | 12 | 0 | 6 | 1 | 6 |
| 8280 | 0 | -12 | 8 | -6 | 2 | 1 | 0 | -4 | 1 | -1 | 8 | 16 | -1 | 0 | 8 |
| 8300 | 1 | 2 | 0 | 4 | 6 | 0 | 5 | 4 | 7 | 2 | -2 | 2 | -1 | 1 | 4 |
| 8320 | -10 | 8 | 4 | 0 | 2 | 2 | -1 | 0 | 2 | 2 | 0 | 6 | 2 | 2 | 6 |
| 8340 | 1 | 4 | 0 | -4 | 4 | 4 | 0 | 0 | 2 | -1 | -8 | 4 | 2 | 4 | 2 |
| 8360 | 0 | -4 | 3 | 2 | 4 | 2 | -1 | 0 | 2 | 3 | 6 | 0 | -1 | 2 | 0 |
| 8380 | 0 | 4 | 2 | 4 | 8 | 1 | -1 | 2 | 2 | 2 | 2 | 4 | 0 | 8 | 6 |
| 8400 | 1 | 2 | 6 | 0 | 0 | 4 | 1 | 0 | 2 | 1 | 2 | 0 | 1 | 12 | 1 |
| 8420 | 2 | 1 | 1 | 0 | 6 | 0 | -1 | 4 | 1 | 0 | 2 | 4 | 2 | 3 | 4 |
| 8440 | 13 | 0 | 1 | 2 | 4 | 3 | 2 | 0 | 0 | 1 | 2 | 4 | 1 | -2 | 2 |
| 8460 | -1 | 7 | 16 | -14 | 12 | 1 | 0 | 0 | 2 | 8 | 2 | 0 | 0 | 0 | 10 |
| 8480 | 2 | 2 | 2 | -2 | 1 | 0 | 2 | 8 | 2 | 2 | 2 | 2 | -2 | 4 | 4 |
| 8500 | -5 | 4 | 6 | 0 | -2 | 2 | 1 | 8 | 2 | -1 | 0 | 8 | 2 | 3 | 6 |
| 8520 | -1 | -2 | 0 | 0 | 0 | 1 | 1 | -12 | 2 | 2 | 4 | 4 | -1 | 6 | 5 |
| 8540 | 0 | 1 | 3 | -12 | 4 | 8 | 1 | 0 | 2 | 1 | 4 | 8 | 1 | 2 | 0 |
| 8560 | 1 | 2 | 1 | 2 | 1 | 2 | 10 | -4 | 4 | -1 | 2 | 0 | 0 | 4 | 2 |
| 8580 | -3 | 2 | 2 | 4 | 0 | 14 | 2 | 2 | 0 | -2 | 2 | 0 | -3 | 2 | 1 |
| 8600 | 4 | 4 | 6 | 4 | 2 | 4 | -1 | 8 | 2 | 0 | 2 | 2 | 1 | 14 | 0 |
| 8620 | 2 | 0 | 3 | 0 | 2 | 1 | -1 | 2 | 0 | 2 | 2 | 8 | 3 | 4 | 2 |
| 8640 | -1 | -4 | 8 | 4 | 16 | 13 | 0 | 0 | 10 | -8 | 1 | 12 | 1 | 0 | 2 |
| 8660 | 7 | 2 | 1 | -2 | 2 | 0 | -1 | 0 | 8 | 0 | 2 | 0 | -1 | 1 | 4 |
| 8680 | -1 | 2 | 8 | 0 | 2 | 4 | -5 | 4 | 2 | -1 | 0 | 4 | 2 | -2 | 1 |
| 8700 | 4 | 2 | 0 | 4 | 2 | 5 | 1 | 16 | 12 | -3 | -2 | 8 | 1 | 2 | 1 |
| 8720 | 0 | 0 | 4 | 0 | 1 | 2 | 2 | 0 | 3 | 2 | 2 | 6 | -1 | 8 | 0 |
| 8740 | -1 | 12 | 2 | 12 | -2 | 1 | 2 | 0 | 2 | -1 | 2 | 4 | 0 | 2 | 2 |
| 8760 | -27 | 4 | 4 | -2 | 0 | 2 | 6 | -4 | 0 | 7 | 4 | 0 | 1 | 8 | 1 |
| 8780 | 1 | 3 | 1 | 2 | 4 | 4 | 6 | 8 | 2 | 0 | -10 | 2 | 1 | 2 | 8 |
| 8800 | 4 | 0 | 5 | 2 | 12 | 1 | 1 | 4 | 0 | 1 | 4 | 16 | 1 | 2 | 1 |
| 8820 | -1 | 4 | 4 | 0 | 2 | 4 | 0 | 2 | 1 | 0 | 8 | 16 | -3 | 0 | 1 |
| 8840 | 4 | -2 | 2 | 4 | 1 | 0 | -1 | 0 | 2 | 2 | 12 | 8 | -2 | 2 | 4 |
| 8860 | -1 | 4 | 3 | 0 | 4 | 1 | 0 | 2 | 2 | 1 | 0 | 0 | 2 | 4 | 2 |
| 8880 | 1 | -4 | 0 | -2 | 2 | 1 | 1 | 12 | 4 | -1 | 1 | 4 | 2 | 2 | 18 |
| 8900 | 0 | 1 | 2 | -12 | -8 | 2 | 3 | 0 | 4 | 1 | 2 | 2 | -2 | 0 | 0 |
| 8920 | 1 | 2 | 1 | 0 | 1 | 2 | -1 | 12 | 8 | -1 | 4 | 2 | 0 | -4 | 2 |
| 8940 | -1 | 4 | 4 | -4 | 0 | 2 | 4 | 0 | 1 | 1 | 0 | 0 | 0 | 2 | 0 |
| 8960 | 2 | 8 | 1 | 2 | 1 | 0 | -1 | 8 | 1 | 0 | 8 | 0 | 1 | 0 | 8 |
| 8980 | 1 | 0 | 2 | 2 | -2 | 8 | -2 | 4 | 0 | 0 | 2 | 4 | 1 | 2 | 3 |

| $i \setminus j$ | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 11 | 13 | 14 | 15 | 17 | 18 | 19 |
|-----------------|----|-----|----|-----|-----|----|----|-----|----|-----|-----|----|-----|----|----|
| 9000 | -1 | 2 | 4 | 2 | 20 | 1 | 0 | -8 | 1 | -1 | 1 | 8 | 1 | 0 | 2 |
| 9020 | 8 | 2 | 8 | 0 | -16 | 0 | -7 | 8 | 2 | 1 | -6 | 8 | 1 | 1 | 4 |
| 9040 | -1 | 4 | 1 | 0 | 1 | 2 | -7 | 0 | 4 | 1 | 0 | 2 | 1 | 4 | 1 |
| 9060 | -4 | 6 | 0 | 0 | 2 | 1 | 1 | 2 | 2 | 3 | -4 | 0 | 2 | 4 | 4 |
| 9080 | 0 | 2 | 2 | 2 | 12 | 12 | -4 | 0 | 1 | 2 | 3 | 4 | 1 | -2 | 0 |
| 9100 | 7 | 4 | 1 | 2 | -4 | 2 | -1 | 2 | 2 | 2 | 0 | 2 | 0 | 4 | 2 |
| 9120 | 1 | 2 | 2 | 0 | 0 | 1 | 2 | 4 | 2 | -3 | 1 | 0 | -1 | 2 | 4 |
| 9140 | 2 | 2 | 8 | 4 | -4 | 4 | 3 | 0 | 3 | 0 | 4 | 6 | -1 | 2 | 4 |
| 9160 | -1 | 0 | 0 | 4 | 5 | 2 | -2 | 4 | 0 | -1 | 4 | 0 | 4 | -4 | 2 |
| 9180 | -5 | 1 | 2 | 2 | 2 | 1 | 0 | 2 | 4 | -2 | -2 | 4 | -2 | 0 | 1 |
| 9200 | 1 | 2 | 1 | 2 | 1 | 0 | -1 | 8 | 2 | 4 | 20 | 12 | -18 | 6 | 12 |
| 9220 | -1 | 8 | 2 | 0 | 2 | 1 | 5 | 4 | 4 | 1 | 0 | 10 | 1 | 2 | 1 |
| 9240 | -1 | -2 | 0 | 0 | 4 | 2 | 1 | 0 | 0 | 1 | 2 | 4 | -1 | 2 | 2 |
| 9260 | 0 | 2 | 2 | -4 | 8 | 2 | 2 | 0 | 4 | 2 | -2 | 0 | -1 | 3 | 0 |
| 9280 | -3 | 8 | 1 | 2 | 1 | 2 | 7 | -8 | 8 | -3 | 6 | 0 | 0 | -4 | 2 |
| 9300 | 3 | 1 | 4 | -8 | 0 | 2 | 2 | 0 | 1 | 1 | 4 | 0 | 0 | 2 | 1 |
| 9320 | 10 | 10 | 3 | 0 | 7 | 2 | 1 | 4 | 20 | 0 | 2 | 2 | -1 | 8 | 4 |
| 9340 | -1 | 0 | 1 | 8 | 2 | 2 | -1 | 0 | 0 | 1 | 2 | 2 | 1 | 1 | 0 |
| 9360 | 2 | 4 | 4 | -2 | 4 | 4 | 0 | -4 | 5 | 2 | 2 | 0 | -1 | 0 | 12 |
| 9380 | 2 | 3 | 2 | -2 | 0 | 0 | -2 | 4 | 1 | 2 | 12 | 2 | -1 | 2 | 4 |
| 9400 | 2 | 2 | 1 | 0 | 1 | 4 | 0 | -20 | 10 | -3 | 0 | 4 | 2 | -4 | 3 |
| 9420 | -1 | 4 | 0 | 0 | 2 | 2 | 2 | 16 | 5 | -1 | -8 | 8 | -1 | 0 | 1 |
| 9440 | 0 | -8 | 4 | 2 | 1 | 4 | 1 | 0 | 2 | 2 | 2 | 4 | 0 | -4 | 0 |
| 9460 | -1 | 4 | 1 | 2 | -2 | 3 | 2 | 2 | 8 | -1 | 10 | 0 | 0 | 2 | 3 |
| 9480 | 1 | 2 | 4 | 2 | 0 | 2 | 1 | 16 | 1 | 1 | 2 | 0 | -1 | 2 | 4 |
| 9500 | 1 | 1 | 8 | 14 | 0 | 12 | -2 | 8 | 1 | 0 | 2 | 4 | 3 | 1 | 4 |
| 9520 | -1 | 0 | 4 | 0 | 4 | 2 | -2 | -4 | 0 | -1 | 4 | 2 | 0 | 2 | 7 |
| 9540 | 2 | 2 | 2 | 2 | 4 | 1 | 0 | 0 | 3 | -10 | 8 | 0 | 1 | 0 | 0 |
| 9560 | 1 | 2 | 2 | -6 | 1 | 0 | 1 | 8 | 4 | 1 | 1 | 0 | -2 | -6 | 4 |
| 9580 | 2 | 2 | 0 | 0 | -12 | 1 | 1 | 12 | 4 | -2 | 0 | 8 | 4 | 1 | 2 |
| 9600 | -1 | 4 | 0 | -4 | 18 | 2 | 1 | 0 | 10 | -1 | 4 | 4 | 1 | 12 | 1 |
| 9620 | 0 | 2 | 1 | 0 | -2 | 2 | -1 | 0 | 1 | 0 | -24 | 4 | 1 | 2 | 0 |
| 9640 | 1 | 2 | 1 | 2 | 4 | 2 | -1 | 0 | 4 | 0 | 4 | 2 | 0 | 2 | 6 |
| 9660 | -1 | 1 | 2 | -2 | 0 | 2 | 10 | 10 | 2 | -4 | 2 | 0 | -1 | 2 | 1 |
| 9680 | 2 | 4 | 2 | -4 | 2 | 2 | -1 | 8 | 4 | 0 | 2 | 4 | -1 | -4 | 4 |
| 9700 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 6 | 0 | 1 | 2 | 4 | 2 | 6 | 1 |
| 9720 | -1 | -10 | 4 | 0 | 2 | 2 | 0 | 4 | 10 | -1 | 2 | 16 | 2 | 0 | 1 |
| 9740 | 2 | 5 | 1 | 6 | 2 | 0 | -3 | 0 | 0 | 1 | -2 | 2 | 5 | 4 | 2 |
| 9760 | 1 | 2 | 2 | 0 | 6 | 1 | -1 | -4 | 2 | -2 | 0 | 0 | 1 | -4 | 16 |
| 9780 | -1 | 4 | 0 | 2 | 4 | 1 | 4 | 24 | 1 | 1 | 2 | 12 | 4 | 8 | 16 |
| 9800 | 0 | 0 | 5 | -12 | 1 | 8 | 2 | 0 | 1 | 3 | 2 | 4 | -1 | -2 | 0 |
| 9820 | 2 | 2 | 16 | 0 | 0 | 2 | -5 | 6 | 4 | -3 | 16 | 16 | 0 | 1 | 1 |
| 9840 | 4 | 4 | 4 | 4 | 0 | 10 | 0 | 0 | 1 | 1 | 2 | 0 | -1 | 4 | 1 |
| 9860 | 2 | 1 | 4 | -2 | -2 | 16 | 3 | 8 | 15 | 0 | 2 | 0 | 2 | 4 | 4 |
| 9880 | -4 | 0 | 1 | 2 | 15 | 1 | 2 | 4 | 0 | -2 | 4 | 10 | 3 | 0 | 2 |
| 9900 | -1 | 3 | 2 | 6 | 4 | 3 | 0 | 2 | 4 | 1 | -2 | 4 | 1 | 0 | 4 |
| 9920 | 1 | 0 | 1 | 0 | 6 | 0 | -1 | 4 | 1 | 4 | 1 | 2 | 3 | -4 | 4 |
| 9940 | -1 | 4 | 2 | 0 | -2 | 0 | -1 | 0 | 4 | -8 | 0 | 8 | 1 | 2 | 2 |
| 9960 | 1 | 4 | 0 | -2 | 4 | 1 | 1 | -4 | 0 | -1 | 1 | 0 | 1 | 2 | 4 |
| 9980 | 0 | 4 | 2 | -2 | 4 | 2 | 1 | 0 | 8 | 1 | 2 | 6 | -2 | 9 | 0 |

| $i \setminus j$ | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 11 | 13 | 14 | 15 | 17 | 18 | 19 |
|-----------------|-----|-----|----|-----|----|----|----|-----|----|----|-----|----|-----|----|----|
| 10000 | -16 | 6 | 2 | 4 | 1 | 1 | -1 | 8 | 8 | 2 | 2 | 2 | 0 | 2 | 2 |
| 10020 | 1 | 1 | 4 | 0 | 0 | 6 | 1 | 4 | 2 | 1 | -4 | 0 | -1 | 4 | 3 |
| 10040 | 1 | -2 | 0 | 0 | 1 | 4 | -2 | 0 | 0 | 0 | 2 | 2 | -2 | 2 | 4 |
| 10060 | -1 | 0 | 2 | 4 | 20 | 5 | -3 | 4 | 0 | 1 | 16 | 0 | 3 | 1 | 1 |
| 10080 | -4 | 0 | 4 | -2 | 0 | 12 | 0 | 4 | 1 | -1 | 0 | 4 | 1 | 0 | 3 |
| 10100 | 4 | 1 | 1 | 2 | 6 | 0 | 1 | 4 | 1 | 1 | -12 | 0 | 7 | 3 | 2 |
| 10120 | 2 | 4 | 10 | 0 | 2 | 4 | 1 | -4 | 4 | -1 | 0 | 2 | 4 | 4 | 1 |
| 10140 | -1 | 2 | 0 | -4 | 8 | 2 | 2 | 0 | 1 | 2 | -2 | 4 | 1 | 2 | 1 |
| 10160 | 0 | 2 | 1 | 2 | 4 | 2 | -1 | 0 | 2 | 1 | 1 | 0 | -1 | 4 | 0 |
| 10180 | -1 | 2 | 4 | 4 | 2 | 2 | 1 | 2 | 8 | -1 | 2 | 2 | 0 | 1 | 8 |
| 10200 | 0 | -14 | 8 | -4 | 0 | 2 | 2 | -4 | 1 | 1 | 1 | 0 | -2 | 4 | 4 |
| 10220 | 1 | 2 | 1 | 0 | 2 | 4 | -2 | 8 | 6 | 0 | 4 | 4 | 2 | 1 | 2 |
| 10240 | 0 | 0 | 5 | 2 | 2 | 1 | -2 | 0 | 0 | -1 | 2 | 12 | 4 | 4 | 1 |
| 10260 | 3 | 2 | 4 | -2 | 4 | 1 | 0 | 4 | 3 | -9 | 2 | 0 | 1 | 0 | 6 |
| 10280 | 2 | -16 | 8 | 0 | 2 | 0 | -1 | 0 | 12 | 2 | 1 | 8 | 1 | 2 | 4 |
| 10300 | -3 | 12 | 1 | 0 | 6 | 2 | 0 | 6 | 4 | -7 | 0 | 2 | 2 | 8 | 2 |
| 10320 | -1 | -4 | 0 | 0 | 2 | 8 | 4 | -4 | 1 | -3 | 1 | 8 | -1 | 2 | 0 |
| 10340 | 0 | 1 | 1 | -4 | 2 | 2 | 1 | 0 | 2 | 12 | 4 | 4 | -7 | 1 | 0 |
| 10360 | 2 | 4 | 2 | 2 | 4 | 4 | -1 | 8 | 4 | 2 | 8 | 0 | 0 | -2 | 2 |
| 10380 | 5 | 6 | 2 | 2 | 0 | 16 | 1 | 2 | 1 | 1 | -2 | 0 | -2 | 10 | 1 |
| 10400 | 11 | 12 | 14 | -6 | 0 | 6 | 1 | 16 | 10 | 0 | 4 | 2 | 1 | 2 | 4 |
| 10420 | 4 | 0 | 6 | 0 | -4 | 1 | -1 | 4 | 0 | -1 | 4 | 2 | 0 | 20 | 12 |
| 10440 | 2 | 2 | 0 | -4 | 2 | 2 | 0 | 0 | 6 | -1 | 1 | 24 | -3 | 0 | 1 |
| 10460 | 2 | 1 | 1 | 4 | 4 | 0 | 0 | 4 | 6 | 1 | -2 | 0 | -1 | 0 | 4 |
| 10480 | 5 | 2 | 2 | 0 | 0 | 1 | -2 | 4 | 4 | 1 | 0 | 2 | 1 | -4 | 1 |
| 10500 | -1 | 2 | 0 | 8 | 20 | 4 | 2 | 2 | 2 | -1 | 4 | 4 | 2 | 4 | 2 |
| 10520 | 0 | -2 | 2 | 0 | 6 | 0 | -1 | 0 | 1 | 1 | 2 | 0 | -2 | 6 | 0 |
| 10540 | 1 | 12 | 2 | 4 | -4 | 2 | 8 | 0 | 2 | -2 | 2 | 6 | 0 | 1 | 1 |
| 10560 | 3 | 2 | 4 | -2 | 0 | 5 | 2 | 4 | 0 | 2 | 2 | 0 | 1 | 4 | 2 |
| 10580 | 1 | 4 | 2 | -4 | 2 | 4 | -1 | 4 | 4 | 0 | 8 | 4 | -1 | 2 | 2 |
| 10600 | -1 | 0 | 2 | 8 | 1 | 11 | 0 | -12 | 0 | -5 | 4 | 4 | 1 | -2 | 4 |
| 10620 | 2 | 2 | 2 | 0 | 8 | 1 | 0 | 2 | 1 | 0 | -4 | 12 | 1 | 0 | 1 |
| 10640 | 3 | 4 | 2 | 2 | 1 | 0 | 1 | 0 | 1 | 2 | 2 | 2 | -1 | 0 | 8 |
| 10660 | 3 | 4 | 1 | 0 | -2 | 1 | 1 | 4 | 2 | -2 | 0 | 0 | 1 | 10 | 2 |
| 10680 | 1 | 0 | 0 | -2 | 4 | 1 | 2 | -4 | 1 | 0 | 5 | 16 | 1 | 2 | 2 |
| 10700 | 0 | 1 | 4 | 2 | -4 | 4 | -1 | 0 | 1 | 7 | 2 | 2 | 1 | 8 | 0 |
| 10720 | 9 | 2 | 1 | 0 | 2 | 4 | -1 | 8 | 0 | -3 | 2 | 4 | 0 | 4 | 5 |
| 10740 | 1 | 4 | 2 | 2 | 0 | 12 | 1 | 0 | 2 | -1 | 6 | 0 | 1 | 8 | 8 |
| 10760 | 2 | -6 | 2 | -2 | 2 | 4 | 0 | 4 | 1 | 0 | 1 | 0 | -4 | -4 | 2 |
| 10780 | -1 | 0 | 2 | 2 | 8 | 4 | -1 | 8 | 0 | 1 | 12 | 20 | 2 | 1 | 1 |
| 10800 | 1 | 2 | 16 | 2 | 4 | 2 | 0 | 4 | 2 | 1 | 9 | 16 | -16 | 0 | 2 |
| 10820 | 1 | 2 | 2 | 0 | -6 | 0 | 0 | 0 | 1 | 2 | -4 | 4 | -1 | 1 | 2 |
| 10840 | 2 | 12 | 2 | 0 | 12 | 5 | 1 | 0 | 6 | -1 | 0 | 4 | 4 | -4 | 1 |
| 10860 | -1 | 1 | 0 | -12 | 2 | 1 | 1 | 6 | 2 | 1 | -2 | 0 | 2 | 0 | 16 |
| 10880 | 0 | 2 | 1 | 10 | 1 | 4 | -3 | 0 | 1 | 1 | 2 | 2 | -2 | -4 | 0 |
| 10900 | 1 | 4 | 1 | 2 | 4 | 2 | -5 | 2 | 2 | 1 | 8 | 4 | 0 | 2 | 2 |
| 10920 | 1 | 2 | 8 | 0 | 0 | 0 | 3 | -4 | 2 | 0 | 4 | 0 | -1 | 2 | 3 |
| 10940 | 6 | 3 | 2 | 4 | -4 | 4 | -3 | 0 | 10 | 0 | -2 | 12 | -7 | 1 | 12 |
| 10960 | -8 | 0 | 4 | 4 | 1 | 2 | 1 | -4 | 0 | -1 | 4 | 0 | 1 | 2 | 1 |
| 10980 | 1 | 0 | 16 | 0 | 2 | 1 | 0 | 24 | 2 | -1 | 4 | 12 | 3 | 0 | 8 |

| $i \backslash j$ | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 11 | 13 | 14 | 15 | 17 | 18 | 19 |
|------------------|-----|-----|----|-----|-----|----|-----|-----|----|----|-----|----|-----|----|----|
| 11000 | 2 | -2 | 1 | 8 | 1 | 0 | -2 | 12 | 0 | 3 | 1 | 14 | 1 | 6 | 16 |
| 11020 | 7 | 8 | 14 | 0 | -44 | 9 | -16 | 6 | 14 | 2 | 0 | 14 | 4 | 1 | 8 |
| 11040 | -2 | 2 | 0 | 0 | 20 | 1 | 2 | 0 | 2 | 7 | 1 | 16 | -3 | 4 | 1 |
| 11060 | 0 | 3 | 4 | -2 | 2 | 16 | -1 | 0 | 1 | 1 | 0 | 0 | 2 | 2 | 0 |
| 11080 | 1 | 2 | 1 | 6 | 2 | 1 | -2 | -4 | 4 | -1 | 0 | 20 | 0 | 2 | 6 |
| 11100 | -2 | 6 | 2 | 2 | 0 | 2 | 0 | 4 | 4 | -1 | -2 | 0 | -1 | 4 | 3 |
| 11120 | 2 | 2 | 0 | 0 | 3 | 2 | 1 | 16 | 1 | 0 | 2 | 4 | 6 | 4 | 4 |
| 11140 | -4 | 0 | 2 | 2 | -2 | 2 | -1 | 0 | 0 | 1 | 0 | 4 | 1 | 2 | 1 |
| 11160 | -1 | -6 | 0 | 4 | 2 | 2 | 0 | -12 | 1 | -1 | 10 | 0 | -1 | 0 | 2 |
| 11180 | 1 | 1 | 10 | -2 | 8 | 0 | 1 | 4 | 0 | 4 | -4 | 6 | -3 | 2 | 6 |
| 11200 | 1 | 2 | 8 | 0 | 10 | 2 | 5 | 4 | 4 | -1 | 0 | 10 | 1 | 4 | 2 |
| 11220 | 0 | 2 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 1 | 8 | 24 | -4 | 8 | 1 |
| 11240 | 0 | 4 | 1 | -4 | 1 | 4 | 1 | 0 | 1 | 0 | 4 | 2 | -17 | 4 | 0 |
| 11260 | -1 | 2 | 2 | 2 | 6 | 4 | 7 | 0 | 0 | -5 | 2 | 0 | 0 | 1 | 1 |
| 11280 | -10 | -4 | 2 | -4 | 0 | 1 | 18 | 4 | 2 | 3 | 1 | 0 | 2 | 4 | 1 |
| 11300 | 1 | 5 | 2 | 4 | -2 | 8 | 1 | 8 | 3 | 0 | -4 | 4 | -1 | 1 | 0 |
| 11320 | -15 | 0 | 0 | 0 | 4 | 4 | -1 | 4 | 0 | 1 | 2 | 2 | 1 | -2 | 4 |
| 11340 | 1 | 10 | 8 | 2 | 4 | 2 | 0 | 0 | 1 | -1 | 6 | 4 | 2 | 0 | 10 |
| 11360 | 4 | 4 | 2 | -2 | 1 | 0 | -1 | 4 | 2 | 2 | 0 | 0 | 1 | 6 | 4 |
| 11380 | 1 | 4 | 1 | 0 | -2 | 4 | 5 | 4 | 2 | -1 | 0 | 4 | 2 | 4 | 1 |
| 11400 | -6 | -2 | 0 | 2 | 10 | 4 | 5 | 4 | 1 | -2 | 6 | 4 | 0 | 8 | 2 |
| 11420 | 0 | 1 | 1 | 0 | -4 | 4 | 1 | 0 | 6 | 2 | -2 | 2 | -1 | 4 | 0 |
| 11440 | -2 | 2 | 1 | 8 | 2 | 7 | 0 | 0 | 8 | -4 | 4 | 4 | 0 | 4 | 2 |
| 11460 | -2 | 4 | 2 | -2 | 0 | 3 | 1 | 4 | 3 | 2 | 2 | 0 | 1 | 2 | 10 |
| 11480 | 2 | -2 | 1 | -2 | 1 | 4 | -1 | 4 | 13 | 0 | 2 | 0 | -1 | -2 | 2 |
| 11500 | 2 | 0 | 1 | 12 | 2 | 2 | -10 | 2 | 0 | 4 | 4 | 0 | 2 | 2 | 1 |
| 11520 | -2 | 8 | 8 | 0 | 4 | 1 | 0 | -4 | 6 | 1 | 4 | 8 | 7 | 0 | 12 |
| 11540 | 1 | 6 | 4 | 6 | 2 | 0 | -1 | 0 | 1 | 1 | -4 | 6 | 2 | 1 | 2 |
| 11560 | 1 | 4 | 6 | 0 | 1 | 6 | 1 | -8 | 8 | 1 | 0 | 0 | 2 | 2 | 1 |
| 11580 | -2 | 1 | 0 | 2 | 2 | 1 | 1 | 12 | 2 | -1 | 12 | 4 | -1 | 2 | 2 |
| 11600 | 0 | -4 | 4 | 4 | 6 | 4 | 2 | 0 | 2 | 0 | 1 | 4 | -1 | -4 | 0 |
| 11620 | -7 | 4 | 6 | 0 | -2 | 8 | -8 | 2 | 6 | -1 | 4 | 8 | 0 | 0 | 2 |
| 11640 | 9 | -2 | 2 | -4 | 0 | 2 | 2 | 0 | 2 | 1 | 3 | 0 | -1 | 12 | 4 |
| 11660 | 0 | 0 | 18 | -30 | 10 | 8 | 1 | 16 | 2 | 0 | -4 | 0 | -1 | 1 | 4 |
| 11680 | -1 | 0 | 2 | 4 | 1 | 4 | -1 | 4 | 0 | 1 | 2 | 2 | 6 | -4 | 1 |
| 11700 | -1 | 1 | 4 | 6 | 2 | 2 | 0 | 2 | 0 | 8 | 2 | 8 | -1 | 0 | 1 |
| 11720 | 1 | -10 | 4 | 0 | 4 | 0 | -4 | 8 | 1 | 1 | 1 | 6 | 0 | -6 | 16 |
| 11740 | 1 | 4 | 1 | 0 | 4 | 2 | 1 | 0 | 6 | 2 | 0 | 2 | 3 | 3 | 2 |
| 11760 | 1 | 2 | 0 | 4 | 4 | 0 | 1 | 4 | 2 | -2 | 0 | 0 | -3 | 4 | 1 |
| 11780 | 0 | 2 | 1 | -2 | 2 | 2 | -3 | 0 | 2 | 1 | -28 | 4 | 1 | 2 | 0 |
| 11800 | -1 | 4 | 4 | 2 | 1 | 1 | 0 | -4 | 4 | -1 | 8 | 12 | 0 | 10 | 2 |
| 11820 | -3 | 4 | 8 | 0 | 0 | 1 | 3 | 0 | 1 | -1 | -8 | 0 | 2 | 2 | 1 |
| 11840 | 1 | 4 | 2 | 2 | 1 | 4 | 0 | 0 | 2 | 0 | 1 | 2 | 1 | 0 | 4 |
| 11860 | -2 | 0 | 1 | 4 | 4 | 1 | 2 | 2 | 0 | 1 | 2 | 0 | 4 | 1 | 10 |
| 11880 | 0 | -12 | 12 | -6 | 4 | 1 | 0 | -8 | 4 | 1 | 4 | 8 | -1 | 0 | 2 |
| 11900 | 1 | 2 | 1 | 2 | 2 | 0 | -1 | 4 | 2 | 0 | 4 | 6 | 2 | 2 | 4 |
| 11920 | 10 | 2 | 1 | 0 | 4 | 1 | 1 | -4 | 4 | -1 | 0 | 8 | 10 | 4 | 1 |
| 11940 | -1 | 2 | 0 | -4 | 4 | 2 | 2 | 0 | 4 | -1 | 6 | 4 | 1 | 4 | 1 |
| 11960 | 0 | -2 | 6 | -6 | 4 | 2 | -1 | 0 | 1 | 2 | 1 | 0 | 8 | 4 | 0 |
| 11980 | -1 | 2 | 2 | 4 | -4 | 1 | 1 | 12 | 12 | 1 | 2 | 2 | 0 | 6 | 0 |

| $i \backslash j$ | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 11 | 13 | 14 | 15 | 17 | 18 | 19 |
|------------------|-----|-----|----|-----|-----|----|-----|-----|----|----|----|----|-----|----|----|
| 12000 | 3 | 8 | 2 | 0 | 0 | 3 | 1 | 4 | 1 | -2 | 1 | 0 | 2 | 2 | 4 |
| 12020 | 1 | 1 | 2 | 0 | 10 | 8 | 1 | 4 | 2 | 0 | 2 | 4 | -1 | 2 | 2 |
| 12040 | -5 | 0 | 1 | 4 | 2 | 2 | -1 | 0 | 0 | -2 | 0 | 2 | 1 | -2 | 6 |
| 12060 | 1 | 2 | 2 | 6 | 2 | 2 | 0 | 4 | 3 | -1 | -2 | 0 | -2 | 0 | 2 |
| 12080 | 3 | 4 | 4 | -2 | 1 | 0 | 14 | 16 | 2 | 2 | 1 | 8 | -1 | 8 | 24 |
| 12100 | -5 | 8 | 0 | 0 | -2 | 1 | -1 | 8 | 16 | -1 | 0 | 2 | 2 | 2 | 1 |
| 12120 | 14 | 8 | 0 | 0 | 4 | 2 | 4 | -4 | 2 | 1 | 1 | 4 | 2 | 0 | 2 |
| 12140 | 0 | 14 | 1 | 2 | -4 | 6 | -1 | 0 | 2 | 1 | 2 | 8 | -1 | 1 | 0 |
| 12160 | -11 | 2 | 1 | 2 | 8 | 0 | 1 | -4 | 4 | 4 | 2 | 0 | 0 | 2 | 2 |
| 12180 | -8 | 5 | 4 | -2 | 0 | 2 | 2 | 16 | 2 | -2 | 4 | 0 | -3 | 8 | 2 |
| 12200 | 0 | -2 | 3 | 4 | 8 | 8 | -2 | 24 | 1 | 0 | 2 | 4 | 1 | -4 | 2 |
| 12220 | 0 | 0 | 2 | 0 | 18 | 3 | 1 | 2 | 0 | -2 | 2 | 2 | 1 | 2 | 3 |
| 12240 | -1 | 2 | 8 | 4 | 4 | 30 | 0 | 0 | 5 | -1 | 2 | 8 | 2 | 0 | 4 |
| 12260 | 2 | 1 | 3 | 2 | -2 | 0 | -3 | 8 | 2 | 1 | 0 | 0 | -1 | 2 | 2 |
| 12280 | -11 | 4 | 2 | 0 | 1 | 6 | -1 | -4 | 4 | 1 | 0 | 2 | 1 | 4 | 0 |
| 12300 | -5 | 1 | 0 | 2 | 4 | 2 | 6 | 6 | 2 | 1 | 2 | 12 | 6 | 10 | 14 |
| 12320 | 0 | -20 | 9 | 0 | 1 | 8 | -1 | 0 | 4 | 3 | 2 | 2 | 0 | 4 | 0 |
| 12340 | 2 | 0 | 1 | 2 | -2 | 1 | -2 | 0 | 4 | 1 | 4 | 4 | 0 | 18 | 8 |
| 12360 | 1 | 2 | 4 | -2 | 0 | 2 | 8 | -4 | 8 | -1 | 2 | 0 | -1 | 2 | 1 |
| 12380 | 1 | 2 | 4 | -2 | 2 | 4 | -4 | 8 | 11 | 0 | -2 | 12 | 0 | 3 | 2 |
| 12400 | -3 | 0 | 6 | 2 | 3 | 2 | -9 | -8 | 0 | -1 | 2 | 16 | 1 | 4 | 2 |
| 12420 | -1 | 1 | 4 | 0 | 4 | 0 | 0 | 4 | 2 | -1 | -4 | 4 | -1 | 0 | 2 |
| 12440 | 12 | -2 | 2 | 4 | 0 | 0 | 1 | 0 | 1 | 2 | 2 | 4 | -1 | -6 | 4 |
| 12460 | -4 | 12 | 0 | 0 | 4 | 4 | 14 | 8 | 2 | -1 | 0 | 0 | 1 | 2 | 1 |
| 12480 | 1 | 0 | 0 | 2 | 2 | 1 | 2 | -8 | 1 | 0 | 1 | 0 | -7 | 2 | 2 |
| 12500 | 0 | 4 | 1 | 16 | 0 | 8 | 1 | 0 | 1 | 4 | 2 | 2 | -1 | 2 | 0 |
| 12520 | 1 | 2 | 2 | 0 | 3 | 1 | 2 | 12 | 4 | 1 | 4 | 4 | 0 | -2 | 1 |
| 12540 | -1 | 5 | 12 | -20 | 0 | 1 | 2 | 0 | 12 | -1 | -2 | 0 | -2 | 8 | 2 |
| 12560 | 2 | 2 | 4 | 2 | 2 | 12 | -1 | 4 | 6 | 0 | 5 | 0 | -3 | 2 | 4 |
| 12580 | 1 | 0 | 1 | 2 | 4 | 4 | -11 | 2 | 0 | 0 | 2 | 8 | 4 | 1 | 2 |
| 12600 | -1 | -2 | 4 | 2 | 4 | 8 | 0 | 8 | 1 | -1 | 4 | 0 | 2 | 0 | 13 |
| 12620 | 2 | 1 | 2 | 0 | 2 | 0 | -4 | 4 | 2 | 1 | -2 | 0 | -1 | 4 | 4 |
| 12640 | -1 | 0 | 2 | 0 | 1 | 1 | 2 | 0 | 2 | -1 | 0 | 14 | 9 | -4 | 1 |
| 12660 | 1 | 2 | 0 | 4 | 2 | 2 | 2 | 8 | 1 | 2 | 2 | 0 | 1 | 4 | 2 |
| 12680 | 0 | -8 | 4 | 6 | 1 | 6 | -1 | 0 | 0 | 1 | 12 | 2 | -1 | 2 | 0 |
| 12700 | -2 | 4 | 1 | 0 | -8 | 2 | 1 | 8 | 4 | -1 | 4 | 2 | 0 | 1 | 8 |
| 12720 | -1 | 2 | 2 | 0 | 0 | 12 | 5 | 4 | 2 | 2 | 1 | 0 | 1 | 4 | 1 |
| 12740 | 2 | 6 | 1 | 2 | -6 | 4 | 2 | 0 | 2 | 0 | 20 | 2 | -1 | 1 | 2 |
| 12760 | 1 | 0 | 1 | 12 | 2 | 6 | 0 | -12 | 0 | -4 | 2 | 0 | 1 | -2 | 2 |
| 12780 | -1 | 4 | 2 | -2 | 6 | 2 | 0 | 2 | 1 | 1 | -6 | 4 | 1 | 0 | 1 |
| 12800 | 2 | -4 | 4 | -4 | 2 | 0 | -1 | 8 | 2 | 1 | 2 | 4 | 1 | -8 | 4 |
| 12820 | -3 | 4 | 1 | 0 | 0 | 2 | -1 | 2 | 8 | -2 | 0 | 28 | 2 | 0 | 2 |
| 12840 | -1 | -2 | 0 | 2 | 2 | 2 | 3 | 0 | 6 | -1 | 1 | 4 | 4 | 2 | 16 |
| 12860 | 0 | 2 | 2 | 2 | 8 | 2 | 2 | 0 | 2 | 4 | -4 | 0 | 1 | 2 | 0 |
| 12880 | 1 | 24 | 2 | 2 | 2 | 0 | -1 | 4 | 8 | -1 | 4 | 2 | 0 | 4 | 1 |
| 12900 | 2 | 1 | 8 | -16 | 0 | 1 | 2 | 2 | 1 | 2 | 2 | 0 | -1 | 2 | 1 |
| 12920 | 2 | 4 | 1 | 0 | 2 | 8 | 1 | 4 | 4 | 0 | 2 | 8 | 2 | -2 | 24 |
| 12940 | -1 | 0 | 0 | 2 | -20 | 0 | 1 | 0 | 0 | -1 | 4 | 2 | 2 | 28 | 1 |
| 12960 | -8 | -8 | 4 | -2 | 4 | 1 | 0 | -4 | 4 | -1 | 2 | 0 | 7 | 0 | 1 |
| 12980 | 1 | 1 | 1 | 0 | 2 | 0 | 1 | 12 | 2 | 10 | 24 | 12 | -10 | 6 | 16 |

| $i \backslash j$ | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 11 | 13 | 14 | 15 | 17 | 18 | 19 |
|------------------|-----|----|----|-----|-----|----|-----|----|----|-----|-----|----|-----|----|----|
| 13000 | -1 | 8 | 7 | 0 | 2 | 1 | -1 | -4 | 2 | 0 | 0 | 20 | 1 | 2 | 2 |
| 13020 | -2 | 4 | 0 | 0 | 4 | 2 | 2 | 2 | 2 | -13 | 0 | 8 | -1 | 4 | 8 |
| 13040 | 0 | 2 | 3 | 2 | 2 | 2 | -7 | 0 | 2 | 4 | 14 | 4 | 1 | 4 | 0 |
| 13060 | -2 | 4 | 1 | 4 | 2 | 2 | 9 | 2 | 6 | 2 | 2 | 0 | 0 | 2 | 4 |
| 13080 | 1 | 2 | 0 | -2 | 0 | 2 | 3 | 8 | 4 | -1 | 1 | 0 | 1 | 4 | 3 |
| 13100 | 4 | 5 | 1 | -16 | 2 | 4 | -1 | 16 | 4 | 0 | 6 | 4 | -6 | 2 | 2 |
| 13120 | -1 | 0 | 3 | 0 | 1 | 1 | 1 | -8 | 0 | 5 | 4 | 8 | 2 | 2 | 10 |
| 13140 | 2 | 1 | 8 | 4 | 4 | 1 | 0 | 0 | 1 | 3 | 2 | 4 | 1 | 0 | 1 |
| 13160 | 2 | -2 | 1 | -2 | 2 | 0 | -4 | 4 | 5 | 1 | 2 | 0 | -1 | 2 | 24 |
| 13180 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 2 | 6 | 1 | 0 | 8 | 2 | 1 | 2 |
| 13200 | 1 | 8 | 0 | 4 | 4 | 2 | 4 | 4 | 2 | 2 | 5 | 12 | -1 | 2 | 1 |
| 13220 | 0 | 2 | 6 | 0 | -16 | 10 | -5 | 0 | 2 | 2 | -4 | 10 | 2 | 1 | 0 |
| 13240 | -1 | 2 | 4 | 6 | 10 | 2 | -1 | 0 | 4 | 2 | 0 | 4 | 0 | 2 | 1 |
| 13260 | -2 | 2 | 2 | 2 | 0 | 1 | 3 | 2 | 12 | -6 | -2 | 0 | 2 | 2 | 0 |
| 13280 | 2 | -4 | 2 | -2 | 12 | 8 | -2 | 8 | 1 | 0 | 0 | 2 | -1 | -4 | 8 |
| 13300 | 1 | 0 | 2 | 2 | -2 | 2 | -1 | 0 | 0 | -7 | 4 | 6 | 4 | 1 | 2 |
| 13320 | 26 | -2 | 4 | 0 | 2 | 1 | 0 | 4 | 1 | 3 | 2 | 16 | -1 | 0 | 3 |
| 13340 | 5 | 12 | 10 | -4 | 2 | 0 | 1 | 0 | 0 | 1 | 2 | 2 | 0 | 1 | 8 |
| 13360 | 1 | 8 | 4 | 0 | 4 | 1 | -2 | 4 | 6 | 1 | 0 | 0 | 0 | 4 | 10 |
| 13380 | -1 | 1 | 0 | -2 | 4 | 2 | 1 | 12 | 4 | 1 | -4 | 8 | -1 | 16 | 1 |
| 13400 | 0 | -2 | 2 | 2 | 1 | 4 | 2 | 0 | 1 | 2 | 4 | 2 | -1 | -2 | 0 |
| 13420 | -1 | 2 | 2 | 0 | 0 | 10 | -2 | 4 | 0 | 6 | 6 | 14 | 0 | 3 | 2 |
| 13440 | -1 | 4 | 2 | 2 | 0 | 4 | 1 | 0 | 1 | 1 | 0 | 0 | -13 | 14 | 2 |
| 13460 | 2 | 2 | 1 | -2 | -2 | 0 | -1 | 4 | 2 | 0 | 2 | 0 | -1 | 6 | 2 |
| 13480 | 4 | 0 | 2 | 4 | 2 | 1 | 2 | 4 | 0 | 1 | 4 | 2 | 2 | -4 | 5 |
| 13500 | 1 | 2 | 8 | -4 | 2 | 2 | 0 | 12 | 2 | -1 | 20 | 8 | 1 | 0 | 2 |
| 13520 | 1 | 2 | 1 | 0 | 1 | 0 | 1 | 8 | 2 | 8 | 6 | 2 | -3 | 4 | 12 |
| 13540 | 1 | 4 | 2 | 0 | 4 | 4 | -12 | 0 | 2 | -1 | 0 | 2 | 1 | 3 | 4 |
| 13560 | 1 | -6 | 0 | -2 | 8 | 1 | 1 | 4 | 2 | 0 | 4 | 0 | -3 | 4 | 2 |
| 13580 | 0 | 1 | 0 | 4 | 2 | 4 | 3 | 0 | 1 | 2 | 2 | 2 | -1 | 2 | 0 |
| 13600 | 4 | 2 | 2 | 2 | 1 | 2 | 1 | 12 | 24 | -1 | 2 | 20 | 0 | 2 | 1 |
| 13620 | -2 | 0 | 12 | 0 | 0 | 1 | 4 | 8 | 2 | -1 | -16 | 0 | 4 | 2 | 4 |
| 13640 | 1 | 2 | 2 | -4 | 1 | 2 | -1 | 0 | 4 | 0 | 1 | 2 | 1 | -2 | 4 |
| 13660 | 1 | 0 | 16 | 2 | 2 | 2 | -1 | 2 | 0 | 0 | 4 | 0 | 4 | 4 | 1 |
| 13680 | -1 | 2 | 8 | 8 | 20 | 21 | 0 | 0 | 9 | -15 | 2 | 8 | -1 | 0 | 4 |
| 13700 | 7 | 12 | 2 | 2 | 4 | 0 | -1 | 4 | 1 | 2 | 2 | 16 | 2 | 0 | 4 |
| 13720 | -1 | 6 | 3 | 0 | 3 | 8 | -1 | -4 | 4 | 1 | 0 | 4 | 2 | -2 | 2 |
| 13740 | 10 | 5 | 0 | 2 | 4 | 2 | 1 | 0 | 1 | -2 | 0 | 8 | -1 | 2 | 1 |
| 13760 | 0 | 4 | 5 | -6 | 1 | 12 | 0 | 0 | 2 | 1 | 2 | 0 | 1 | 0 | 0 |
| 13780 | -1 | 2 | 4 | 6 | -24 | 2 | -1 | 4 | 2 | -2 | 0 | 4 | 0 | 1 | 3 |
| 13800 | -12 | 2 | 4 | 4 | 0 | 1 | 1 | -4 | 2 | 1 | 1 | 0 | 2 | 0 | 10 |
| 13820 | 2 | 1 | 4 | 0 | 4 | 8 | -1 | 8 | 1 | 0 | -22 | 2 | 2 | 4 | 4 |
| 13840 | -5 | 0 | 2 | 4 | 4 | 2 | 1 | 0 | 0 | 1 | 10 | 4 | 2 | 0 | 1 |
| 13860 | 3 | 2 | 2 | 10 | 2 | 0 | 0 | 4 | 4 | -1 | 4 | 0 | -3 | 0 | 1 |
| 13880 | 2 | 2 | 1 | -2 | 2 | 0 | 8 | 12 | 2 | 4 | 5 | 4 | 6 | -2 | 4 |
| 13900 | -1 | 4 | 1 | 0 | 8 | 1 | 1 | 4 | 6 | -1 | 0 | 0 | 1 | 3 | 2 |
| 13920 | -1 | 6 | 0 | 0 | 12 | 2 | 1 | 4 | 1 | -1 | 1 | 4 | 2 | 4 | 2 |
| 13940 | 0 | 3 | 2 | 2 | 2 | 2 | -4 | 0 | 2 | 1 | 6 | 2 | -2 | 2 | 0 |
| 13960 | 1 | 4 | 1 | 0 | 1 | 1 | 2 | 4 | 12 | 2 | 4 | 0 | 0 | 4 | 2 |
| 13980 | 2 | 1 | 16 | -2 | 0 | 22 | 1 | 2 | 2 | 1 | -2 | 0 | -1 | 2 | 1 |

| $i \backslash j$ | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 11 | 13 | 14 | 15 | 17 | 18 | 19 |
|------------------|-----|-----|----|----|-----|----|-----|----|----|----|-----|----|----|-----|----|
| 14000 | 2 | -4 | 4 | 4 | 2 | 8 | -11 | 8 | 1 | 0 | 0 | 2 | 1 | 2 | 2 |
| 14020 | 1 | 0 | 2 | 0 | -6 | 0 | -1 | 8 | 0 | -1 | 2 | 8 | 1 | 1 | 2 |
| 14040 | 1 | 12 | 12 | 0 | 2 | 2 | 0 | 0 | 1 | 2 | 1 | 4 | -1 | 0 | 2 |
| 14060 | 4 | 20 | 0 | -4 | -12 | 0 | 1 | 8 | 1 | 1 | 2 | 0 | 1 | 1 | 0 |
| 14080 | -1 | 6 | 1 | 0 | 1 | 1 | -6 | 4 | 8 | 4 | 0 | 2 | 4 | 4 | 2 |
| 14100 | 1 | 4 | 0 | 4 | 2 | 3 | 1 | 4 | 4 | 13 | 2 | 4 | 1 | 4 | 4 |
| 14120 | 0 | 14 | 2 | 0 | 4 | 20 | 3 | 0 | 10 | 4 | 2 | 4 | 1 | -2 | 0 |
| 14140 | 3 | 2 | 1 | 4 | 2 | 12 | -1 | 0 | 4 | -1 | 16 | 8 | 0 | 1 | 9 |
| 14160 | 0 | -16 | 10 | -6 | 0 | 2 | 1 | 8 | 6 | -1 | 2 | 0 | -1 | 8 | 2 |
| 14180 | 2 | 2 | 2 | -2 | 8 | 4 | 3 | 8 | 14 | 0 | 4 | 12 | -3 | 2 | 2 |
| 14200 | 7 | 0 | 2 | 2 | 1 | 1 | 4 | 0 | 0 | -2 | 4 | 2 | 2 | -2 | 4 |
| 14220 | -1 | 2 | 4 | 0 | 14 | 2 | 0 | 2 | 4 | 1 | 2 | 8 | 1 | 0 | 6 |
| 14240 | 2 | 4 | 1 | 4 | 6 | 0 | -1 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 0 |
| 14260 | -2 | 4 | 2 | 0 | 2 | 6 | 1 | 2 | 4 | 1 | 0 | 0 | 1 | 0 | 2 |
| 14280 | -5 | -4 | 0 | -2 | 2 | 4 | 4 | -4 | 2 | -1 | 6 | 4 | 0 | 2 | 10 |
| 14300 | 0 | 3 | 1 | -8 | 8 | 4 | 2 | 0 | 2 | 4 | -6 | 4 | 1 | 1 | 0 |
| 14320 | -1 | 8 | 1 | 0 | 8 | 1 | 2 | -4 | 4 | 1 | 2 | 4 | 0 | 2 | 2 |
| 14340 | -1 | 2 | 4 | 4 | 0 | 1 | 1 | 0 | 4 | 1 | -4 | 0 | 0 | 2 | 2 |
| 14360 | 1 | 2 | 2 | 0 | 2 | 2 | -1 | 12 | 2 | 0 | 1 | 0 | 1 | 4 | 6 |
| 14380 | -2 | 0 | 6 | 12 | -4 | 3 | -3 | 10 | 0 | -2 | 18 | 14 | 3 | 10 | 0 |
| 14400 | -43 | 6 | 16 | 2 | 0 | 1 | 0 | 20 | 1 | 4 | 1 | 0 | 2 | 0 | 1 |
| 14420 | 4 | 3 | 1 | 0 | -2 | 0 | 5 | 16 | 1 | 2 | 8 | 2 | -1 | 1 | 2 |
| 14440 | 1 | 4 | 4 | 0 | 4 | 1 | -1 | 0 | 2 | -2 | 0 | 0 | 6 | -2 | 4 |
| 14460 | -1 | 4 | 0 | 2 | 2 | 4 | 4 | 2 | 2 | 2 | -2 | 0 | 1 | 12 | 1 |
| 14480 | 0 | -4 | 2 | -2 | 1 | 4 | -1 | 0 | 4 | 1 | 3 | 4 | 2 | 2 | 0 |
| 14500 | -2 | 6 | 11 | 6 | -2 | 2 | 1 | 2 | 8 | 5 | 4 | 2 | 0 | 4 | 1 |
| 14520 | 2 | -4 | 4 | 0 | 0 | 2 | 10 | -4 | 4 | -1 | 0 | 0 | -1 | 2 | 24 |
| 14540 | 2 | 2 | 1 | 2 | 4 | 8 | -1 | 0 | 1 | 0 | 2 | 4 | -1 | 2 | 4 |
| 14560 | -1 | 0 | 1 | 2 | 1 | 4 | -2 | 4 | 0 | 2 | 4 | 0 | 2 | -4 | 2 |
| 14580 | 5 | 10 | 2 | -2 | 8 | 6 | 0 | 2 | 1 | -1 | 2 | 8 | 3 | 0 | 10 |
| 14600 | 4 | 0 | 4 | 2 | 2 | 0 | 3 | 4 | 16 | 1 | 1 | 4 | 1 | -2 | 16 |
| 14620 | -1 | 2 | 2 | 0 | 8 | 1 | -1 | 8 | 2 | -1 | 0 | 2 | 8 | 2 | 17 |
| 14640 | 0 | -12 | 0 | -8 | 2 | 4 | 2 | 0 | 0 | -3 | 2 | 4 | -1 | 4 | 4 |
| 14660 | 0 | 3 | 8 | 2 | -2 | 2 | -1 | 0 | 12 | 4 | 4 | 0 | -2 | 2 | 0 |
| 14680 | -2 | 2 | 1 | 4 | 2 | 2 | 2 | -8 | 8 | 1 | 4 | 2 | 0 | -18 | 1 |
| 14700 | 2 | 1 | 0 | -4 | 0 | 4 | 1 | 2 | 2 | -1 | 2 | 0 | -1 | 4 | 8 |
| 14720 | 14 | 16 | 1 | 0 | 6 | 6 | 2 | 4 | 1 | 0 | 2 | 4 | -1 | -12 | 0 |
| 14740 | -1 | 0 | 2 | 10 | -12 | 1 | 0 | 0 | 0 | -1 | 2 | 4 | 1 | 2 | 1 |
| 14760 | 2 | 0 | 8 | -2 | 4 | 1 | 0 | 12 | 1 | 2 | 2 | 0 | 1 | 0 | 1 |
| 14780 | 2 | 2 | 3 | -2 | 4 | 0 | 1 | 8 | 2 | 1 | -16 | 8 | -1 | 0 | 2 |
| 14800 | 0 | 2 | 12 | 0 | 2 | 8 | 1 | -8 | 2 | -1 | 0 | 2 | 2 | 4 | 12 |
| 14820 | -1 | 1 | 0 | 0 | 4 | 7 | 1 | 6 | 5 | 2 | -4 | 8 | -2 | 4 | 4 |
| 14840 | 0 | -4 | 1 | 2 | 2 | 0 | 1 | 0 | 1 | 1 | 2 | 2 | 1 | 4 | 0 |
| 14860 | 2 | 2 | 4 | 2 | -4 | 3 | -1 | 2 | 2 | 1 | 4 | 0 | 0 | 2 | 3 |
| 14880 | 1 | 8 | 0 | -4 | 0 | 1 | 4 | -8 | 1 | 2 | 2 | 0 | -1 | 4 | 2 |
| 14900 | 1 | 1 | 4 | 4 | 4 | 4 | -2 | 8 | 4 | 0 | 2 | 8 | 1 | 1 | 14 |
| 14920 | 1 | 0 | 1 | 0 | 2 | 4 | -1 | -4 | 0 | -4 | 4 | 4 | 2 | 12 | 1 |
| 14940 | 1 | 2 | 4 | 0 | 4 | 7 | 0 | 0 | 1 | 1 | -2 | 4 | -1 | 0 | 12 |
| 14960 | 5 | 6 | 2 | 8 | 2 | 0 | -3 | 4 | 2 | 4 | 1 | 0 | -6 | -8 | 4 |
| 14980 | 1 | 6 | 1 | 0 | 2 | 2 | 2 | 2 | 4 | 6 | 0 | 2 | 1 | 1 | 2 |

| $i \backslash j$ | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 11 | 13 | 14 | 15 | 17 | 18 | 19 |
|------------------|----|----|----|----|-----|----|-----|-----|----|-----|----|----|-----|----|----|
| 15000 | 1 | -4 | 0 | 4 | 20 | 2 | 3 | 4 | 4 | -1 | 1 | 16 | -1 | 6 | 2 |
| 15020 | 0 | 4 | 2 | 0 | 2 | 6 | 2 | 0 | 1 | 3 | -2 | 4 | 1 | 2 | 0 |
| 15040 | 0 | 12 | 0 | 4 | 1 | 12 | -2 | 0 | 4 | -1 | 4 | 2 | 0 | 2 | 0 |
| 15060 | -3 | 4 | 2 | 2 | 0 | 4 | 1 | 12 | 4 | -1 | 2 | 0 | -1 | 4 | 2 |
| 15080 | 2 | -2 | 3 | 2 | 2 | 4 | 3 | 4 | 1 | 0 | 1 | 2 | 1 | -2 | 4 |
| 15100 | -1 | 0 | 2 | 4 | 4 | 1 | 2 | 2 | 0 | 2 | 4 | 2 | 5 | 1 | 2 |
| 15120 | -5 | -4 | 0 | 0 | 12 | 10 | 0 | -32 | 15 | -10 | 4 | 16 | -1 | 0 | 1 |
| 15140 | 0 | 2 | 2 | -4 | -2 | 0 | -1 | 0 | 6 | 1 | 6 | 4 | 1 | 4 | 4 |
| 15160 | -1 | 0 | 12 | 0 | 5 | 2 | 2 | 16 | 4 | -1 | 0 | 0 | 1 | -2 | 4 |
| 15180 | 4 | 3 | 0 | -2 | 2 | 1 | 4 | 0 | 2 | -3 | 10 | 4 | 2 | 4 | 1 |
| 15200 | 0 | 2 | 2 | 2 | 3 | 12 | 1 | 0 | 44 | 2 | 1 | 4 | -1 | 4 | 0 |
| 15220 | 1 | 4 | 2 | 0 | 14 | 3 | -2 | 2 | 2 | -1 | 2 | 4 | 0 | 2 | 0 |
| 15240 | -1 | -2 | 2 | -4 | 0 | 2 | 16 | 0 | 6 | 1 | 2 | 0 | 10 | 2 | 1 |
| 15260 | 1 | 2 | 1 | 6 | 8 | 4 | -1 | 8 | 1 | 0 | 2 | 0 | -7 | 1 | 8 |
| 15280 | 2 | 0 | 4 | 2 | 1 | 1 | -1 | 4 | 0 | 4 | 2 | 16 | 1 | 2 | 1 |
| 15300 | 2 | 2 | 2 | 2 | 2 | 5 | 0 | 2 | 2 | -1 | 12 | 12 | 0 | 0 | 1 |
| 15320 | 1 | 2 | 4 | 0 | 4 | 0 | -1 | 8 | 1 | 2 | 4 | 2 | 0 | -2 | 4 |
| 15340 | 0 | 2 | 2 | 0 | -4 | 2 | -3 | 0 | 8 | -2 | 0 | 4 | 3 | 2 | 1 |
| 15360 | -1 | 2 | 0 | 2 | 4 | 0 | 2 | -8 | 4 | -1 | 9 | 0 | -13 | 8 | 0 |
| 15380 | 0 | 3 | 1 | -4 | 0 | 4 | 1 | 0 | 1 | 2 | 2 | 2 | -4 | 1 | 0 |
| 15400 | -1 | 4 | 4 | 4 | 1 | 8 | 19 | 4 | 16 | -1 | 4 | 2 | 0 | -4 | 2 |
| 15420 | 1 | 2 | 8 | 0 | 0 | 1 | 4 | 6 | 6 | 2 | -2 | 0 | 1 | 12 | 1 |
| 15440 | 1 | 4 | 1 | -4 | 1 | 8 | 1 | 0 | 3 | 0 | 1 | 4 | -4 | 2 | 10 |
| 15460 | -1 | 0 | 0 | 6 | 20 | 1 | 1 | 8 | 0 | -5 | 2 | 0 | 4 | 2 | 8 |
| 15480 | -2 | -2 | 8 | 2 | 4 | 2 | 0 | -4 | 2 | -1 | 2 | 4 | -1 | 0 | 4 |
| 15500 | 3 | 2 | 2 | 2 | 2 | 0 | -4 | 8 | 3 | 1 | -2 | 4 | 3 | 5 | 4 |
| 15520 | 18 | 4 | 0 | 0 | 2 | 1 | -24 | -4 | 4 | 0 | 0 | 4 | 1 | 16 | 4 |
| 15540 | -1 | 6 | 0 | 2 | 2 | 14 | 4 | 0 | 1 | 1 | 4 | 8 | 1 | 8 | 1 |
| 15560 | 0 | 2 | 2 | 2 | 2 | 2 | -1 | 0 | 2 | 2 | 22 | 0 | -2 | -2 | 0 |
| 15580 | -1 | 0 | 1 | 2 | -24 | 4 | 2 | 2 | 2 | 3 | 4 | 2 | 0 | 6 | 2 |
| 15600 | -1 | -4 | 4 | 4 | 0 | 1 | 0 | 4 | 2 | -2 | 2 | 0 | 2 | 4 | 5 |
| 15620 | 14 | 2 | 8 | 0 | -24 | 8 | -9 | 12 | 0 | 0 | 2 | 16 | 1 | 2 | 4 |
| 15640 | -3 | 0 | 3 | 4 | 1 | 1 | -1 | 0 | 0 | 1 | 2 | 8 | 6 | -6 | 2 |
| 15660 | -3 | 2 | 4 | -4 | 4 | 1 | 0 | 2 | 1 | 1 | 4 | 0 | 2 | 0 | 1 |
| 15680 | 1 | 8 | 1 | -2 | 4 | 0 | -6 | 8 | 4 | 1 | 4 | 4 | 1 | 12 | 8 |
| 15700 | 1 | 8 | 6 | 0 | -2 | 4 | 3 | 2 | 2 | 1 | 0 | 8 | 0 | 2 | 6 |
| 15720 | 1 | 2 | 0 | 0 | 2 | 1 | 0 | 0 | 1 | -3 | 1 | 4 | -3 | 4 | 1 |
| 15740 | 0 | 4 | 4 | 2 | 2 | 4 | -1 | 0 | 2 | 2 | -2 | 4 | 3 | 1 | 0 |
| 15760 | -1 | 4 | 4 | 2 | 1 | 1 | 2 | 4 | 4 | -3 | 8 | 0 | 0 | 0 | 2 |
| 15780 | 1 | 2 | 2 | 4 | 0 | 1 | 4 | 2 | 1 | -2 | -4 | 0 | -1 | 2 | 4 |
| 15800 | 2 | -2 | 1 | 8 | 4 | 4 | -7 | 8 | 20 | 0 | 1 | 2 | -1 | 2 | 2 |
| 15820 | -2 | 0 | 1 | 0 | 4 | 0 | 1 | 2 | 0 | 1 | 24 | 2 | 1 | 1 | 4 |
| 15840 | 2 | 0 | 4 | -4 | 8 | 4 | 0 | 0 | 0 | 1 | 1 | 16 | 4 | 0 | 3 |
| 15860 | 2 | 20 | 2 | 2 | -2 | 0 | 5 | 0 | 2 | 12 | 26 | 0 | -13 | 8 | 12 |
| 15880 | -3 | 14 | 18 | 0 | 0 | 5 | -5 | 12 | 6 | 1 | 0 | 0 | 12 | -2 | 2 |
| 15900 | -1 | 1 | 0 | 2 | 4 | 1 | 1 | 16 | 6 | -1 | 4 | 4 | 1 | 12 | 1 |
| 15920 | 0 | 2 | 1 | 0 | 1 | 2 | -4 | 0 | 16 | 2 | 4 | 2 | -1 | -4 | 0 |
| 15940 | 1 | 2 | 2 | 2 | 4 | 2 | -4 | 0 | 4 | 4 | 2 | 6 | 0 | 2 | 1 |
| 15960 | 3 | 2 | 4 | 2 | 0 | 2 | 1 | -4 | 1 | -1 | 0 | 0 | -10 | 2 | 0 |
| 15980 | 2 | 2 | 2 | 2 | 6 | 0 | 5 | 8 | 1 | 0 | 2 | 4 | -2 | 2 | 2 |

| $i \backslash j$ | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 11 | 13 | 14 | 15 | 17 | 18 | 19 |
|------------------|----|-----|----|-----|----|----|-----|-----|----|-----|-----|----|----|-----|----|
| 16000 | -5 | 0 | 2 | 4 | 2 | 1 | 1 | 8 | 0 | 3 | 4 | 10 | 2 | -4 | 4 |
| 16020 | 2 | 1 | 0 | 0 | 2 | 4 | 0 | 8 | 4 | -1 | 2 | 4 | 2 | 0 | 2 |
| 16040 | 1 | -4 | 2 | 6 | 2 | 0 | 1 | 0 | 6 | 1 | 2 | 0 | -1 | 4 | 12 |
| 16060 | -1 | 2 | 1 | 0 | -4 | 3 | -1 | 2 | 8 | -1 | 0 | 0 | 2 | 1 | 4 |
| 16080 | -2 | 4 | 0 | -2 | 4 | 3 | 2 | 8 | 1 | 0 | 10 | 16 | -1 | 2 | 2 |
| 16100 | 0 | 2 | 1 | 2 | -2 | 8 | -2 | 0 | 5 | 2 | 4 | 4 | 1 | 5 | 0 |
| 16120 | 0 | 2 | 2 | 0 | 2 | 7 | 0 | -20 | 16 | -4 | 4 | 4 | 0 | -2 | 1 |
| 16140 | -3 | 2 | 2 | 2 | 0 | 4 | 2 | 0 | 8 | -4 | 8 | 0 | 1 | 2 | 24 |
| 16160 | 1 | 4 | 2 | -4 | 4 | 4 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | -4 | 2 |
| 16180 | 1 | 0 | 1 | 4 | -2 | 1 | -1 | 2 | 0 | -1 | 2 | 4 | 1 | 4 | 4 |
| 16200 | 6 | -2 | 8 | 2 | 8 | 2 | 0 | -4 | 4 | 1 | 0 | 8 | -7 | 0 | 0 |
| 16220 | 1 | 1 | 1 | 0 | 4 | 0 | -1 | 4 | 3 | 2 | -2 | 12 | 2 | 4 | 2 |
| 16240 | -2 | 2 | 10 | 0 | 1 | 4 | -1 | 0 | 6 | -1 | 0 | 14 | 5 | 2 | 2 |
| 16260 | 2 | 2 | 0 | -2 | 2 | 1 | 8 | 2 | 2 | -1 | 4 | 0 | -2 | 4 | 4 |
| 16280 | 0 | 2 | 2 | -2 | 6 | 4 | 2 | 0 | 2 | 1 | 1 | 2 | 1 | 4 | 0 |
| 16300 | -1 | 8 | 8 | 2 | 12 | 2 | 1 | 4 | 18 | 5 | 2 | 8 | 0 | 14 | 1 |
| 16320 | 9 | 4 | 2 | 0 | 0 | 2 | 1 | 12 | 2 | -11 | 1 | 0 | 0 | 4 | 7 |
| 16340 | 4 | 3 | 6 | 2 | 2 | 4 | -1 | 0 | 2 | 0 | -24 | 2 | 3 | 3 | 8 |
| 16360 | -1 | 0 | 1 | 2 | 0 | 2 | -3 | -4 | 0 | 1 | 2 | 0 | 2 | 2 | 4 |
| 16380 | -1 | 9 | 16 | -12 | 10 | 2 | 0 | 4 | 2 | 0 | 2 | 4 | 1 | 0 | 0 |
| 16400 | 4 | 2 | 2 | -4 | 2 | 0 | 12 | 8 | 1 | 1 | 2 | 0 | -1 | -8 | 16 |
| 16420 | -1 | 8 | 2 | 0 | 6 | 1 | 1 | 4 | 2 | -1 | 0 | 4 | 1 | 1 | 4 |
| 16440 | 2 | -2 | 0 | 4 | 2 | 1 | 1 | 0 | 5 | -1 | 2 | 4 | 1 | 4 | 2 |
| 16460 | 0 | 1 | 2 | -4 | 2 | 8 | 5 | 0 | 28 | 0 | -2 | 0 | -3 | 8 | 0 |
| 16480 | -3 | 8 | 2 | 4 | 1 | 1 | 1 | -8 | 8 | -1 | 2 | 2 | 0 | 12 | 2 |
| 16500 | -2 | 2 | 2 | 4 | 0 | 4 | 1 | 4 | 4 | 0 | 4 | 0 | 1 | 2 | 1 |
| 16520 | 1 | 2 | 4 | 0 | 1 | 8 | -1 | 8 | 6 | 0 | 14 | 2 | 1 | -10 | 4 |
| 16540 | 2 | 0 | 8 | 2 | -8 | 1 | 2 | 0 | 0 | -3 | 4 | 32 | 1 | 2 | 2 |
| 16560 | -1 | 0 | 4 | -2 | 8 | 1 | 0 | -4 | 8 | -1 | 3 | 0 | 0 | 0 | 4 |
| 16580 | 1 | 1 | 8 | 6 | -6 | 0 | -2 | 8 | 4 | 1 | -12 | 2 | 1 | 12 | 4 |
| 16600 | -8 | 2 | 1 | 0 | 0 | 1 | -12 | 4 | 0 | -2 | 0 | 2 | 2 | 2 | 1 |
| 16620 | 1 | 1 | 0 | 0 | 8 | 2 | 6 | 2 | 1 | -1 | -6 | 12 | 5 | 8 | 24 |
| 16640 | 0 | -28 | 8 | -12 | 4 | 16 | -3 | 0 | 1 | 4 | 2 | 6 | -1 | -4 | 0 |
| 16660 | -3 | 2 | 2 | 4 | -8 | 2 | 1 | 2 | 2 | -3 | 4 | 0 | 0 | 2 | 2 |
| 16680 | 1 | 2 | 4 | 2 | 0 | 4 | 3 | -4 | 1 | -1 | 8 | 0 | 1 | 0 | 1 |
| 16700 | 2 | 2 | 1 | -4 | 2 | 4 | 0 | 8 | 2 | 0 | 4 | 6 | -2 | 2 | 2 |
| 16720 | 3 | 0 | 6 | 0 | 1 | 18 | -1 | 4 | 0 | -2 | 14 | 2 | 6 | 4 | 4 |
| 16740 | -5 | 2 | 6 | -4 | 2 | 1 | 0 | 0 | 2 | 13 | -4 | 4 | -2 | 0 | 1 |
| 16760 | 16 | 0 | 1 | 2 | 2 | 0 | 2 | 16 | 2 | 3 | 1 | 0 | 3 | -2 | 8 |
| 16780 | -2 | 6 | 2 | 0 | 4 | 1 | 1 | 4 | 4 | 1 | 0 | 2 | 2 | 2 | 2 |
| 16800 | -4 | 4 | 0 | 2 | 2 | 0 | 2 | 0 | 1 | 10 | 4 | 8 | 1 | 6 | 0 |
| 16820 | 0 | 2 | 1 | 0 | 2 | 4 | -1 | 0 | 1 | 2 | 2 | 16 | -4 | 1 | 0 |
| 16840 | 1 | 4 | 1 | 2 | 3 | 2 | 4 | 0 | 4 | 1 | 0 | 2 | 0 | -2 | 2 |
| 16860 | -4 | 1 | 8 | -2 | 0 | 18 | 1 | 4 | 1 | 1 | 16 | 0 | 1 | 4 | 1 |
| 16880 | 2 | 4 | 1 | 2 | 1 | 8 | -1 | 16 | 4 | 0 | 1 | 8 | -2 | 8 | 40 |
| 16900 | -7 | 0 | 1 | 0 | 2 | 4 | -2 | 12 | 0 | 12 | 2 | 4 | 1 | 2 | 4 |
| 16920 | -1 | -2 | 4 | 0 | 16 | 1 | 0 | -4 | 1 | 2 | 1 | 8 | -1 | 0 | 2 |
| 16940 | 1 | 2 | 1 | -4 | -4 | 0 | -2 | 0 | 8 | 1 | 0 | 2 | 5 | 2 | 2 |
| 16960 | 1 | 4 | 1 | 0 | 2 | 0 | 1 | -4 | 10 | 1 | 0 | 0 | 1 | -4 | 1 |
| 16980 | -1 | 2 | 0 | 2 | 4 | 15 | 2 | 2 | 2 | -1 | -4 | 8 | 3 | 4 | 2 |

| $i \backslash j$ | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 11 | 13 | 14 | 15 | 17 | 18 | 19 |
|------------------|----|-----|----|----|-----|----|-----|-----|----|----|-----|----|-----|----|----|
| 17000 | 0 | -2 | 0 | 4 | 2 | 2 | -2 | 0 | 1 | 2 | 2 | 8 | 8 | 2 | 0 |
| 17020 | -1 | 2 | 14 | 0 | 2 | 1 | -1 | 12 | 16 | -5 | 4 | 2 | 0 | 2 | 10 |
| 17040 | -1 | -4 | 8 | 2 | 0 | 1 | 5 | 0 | 0 | -3 | 1 | 0 | -2 | 2 | 2 |
| 17060 | 0 | 2 | 2 | -2 | 4 | 4 | 0 | 12 | 2 | 0 | 18 | 0 | -1 | 1 | 2 |
| 17080 | 6 | 0 | 6 | 4 | 1 | 2 | 1 | -4 | 0 | -1 | 8 | 4 | 2 | 2 | 1 |
| 17100 | 0 | 2 | 2 | 4 | 2 | 1 | 0 | 4 | 2 | 12 | 2 | 8 | -1 | 0 | 16 |
| 17120 | 4 | 8 | 1 | 0 | 1 | 0 | 1 | 4 | 2 | 1 | 6 | 4 | -1 | 8 | 4 |
| 17140 | -2 | 4 | 4 | 0 | -2 | 2 | 1 | 0 | 2 | -2 | 0 | 4 | 8 | 2 | 15 |
| 17160 | 0 | -14 | 0 | -6 | 2 | 1 | 2 | -8 | 4 | -2 | 2 | 0 | -2 | 4 | 4 |
| 17180 | 0 | 0 | 1 | 2 | -4 | 4 | -1 | 0 | 1 | 2 | -2 | 4 | 2 | 1 | 0 |
| 17200 | 1 | 4 | 1 | 4 | 14 | 1 | -1 | 4 | 4 | 1 | 4 | 12 | 0 | 6 | 8 |
| 17220 | -2 | 2 | 2 | 0 | 0 | 12 | 1 | 2 | 1 | 1 | 4 | 0 | 1 | 0 | 1 |
| 17240 | 2 | 8 | 4 | 2 | 1 | 2 | 1 | 0 | 2 | 0 | 1 | 8 | -7 | -2 | 4 |
| 17260 | -2 | 0 | 2 | 2 | -32 | 2 | 1 | 4 | 0 | 9 | 2 | 0 | 4 | 2 | 2 |
| 17280 | 1 | 2 | 4 | -2 | 8 | 2 | 0 | 8 | 1 | -1 | 1 | 4 | 0 | 0 | 3 |
| 17300 | 8 | 2 | 0 | -8 | 4 | 0 | 1 | 4 | 12 | 2 | 2 | 2 | -1 | 6 | 4 |
| 17320 | -1 | 2 | 8 | 0 | 5 | 1 | 2 | -4 | 4 | -1 | 0 | 14 | 1 | -2 | 2 |
| 17340 | -1 | 4 | 0 | -4 | 0 | 8 | 1 | 0 | 1 | 4 | -2 | 8 | 2 | 16 | 1 |
| 17360 | 0 | -4 | 2 | 2 | 4 | 4 | 1 | 0 | 2 | 1 | 4 | 0 | -1 | 2 | 0 |
| 17380 | 2 | 2 | 1 | 8 | -2 | 1 | -1 | 4 | 24 | -1 | 4 | 0 | 0 | 1 | 2 |
| 17400 | -1 | 8 | 2 | 0 | 0 | 0 | 2 | -4 | 2 | 7 | 1 | 0 | -3 | 10 | 1 |
| 17420 | 5 | 12 | 16 | 0 | 10 | 16 | -2 | 16 | 1 | 0 | 2 | 8 | 4 | 1 | 6 |
| 17440 | 1 | 0 | 1 | 2 | 40 | 2 | -1 | 0 | 0 | 1 | 2 | 2 | 0 | 4 | 4 |
| 17460 | 1 | 1 | 2 | 6 | 4 | 1 | 0 | 2 | 1 | -2 | 6 | 0 | -3 | 0 | 4 |
| 17480 | 1 | -18 | 1 | -8 | 2 | 0 | -1 | 16 | 1 | 0 | 1 | 2 | -1 | -8 | 8 |
| 17500 | 2 | 2 | 4 | 0 | 2 | 4 | -1 | 4 | 4 | 1 | 0 | 4 | 1 | 2 | 1 |
| 17520 | 1 | 2 | 0 | 0 | 4 | 2 | 1 | -4 | 2 | -2 | 2 | 8 | 2 | 4 | 1 |
| 17540 | 0 | 0 | 14 | 0 | 2 | 2 | 2 | 0 | 1 | 1 | 2 | 6 | -2 | 1 | 0 |
| 17560 | 2 | 6 | 4 | 2 | 3 | 2 | -7 | 4 | 12 | -1 | 16 | 0 | 0 | 12 | 1 |
| 17580 | -3 | 2 | 6 | -2 | 0 | 6 | 4 | 2 | 0 | -2 | 2 | 0 | -1 | 4 | 1 |
| 17600 | 1 | -4 | 2 | 2 | 1 | 2 | -3 | 8 | 2 | 0 | 1 | 4 | 1 | 4 | 4 |
| 17620 | 1 | 0 | 1 | 0 | 2 | 1 | 0 | 8 | 0 | 2 | 2 | 6 | 1 | 1 | 2 |
| 17640 | 2 | -2 | 4 | -4 | 4 | 4 | 0 | 0 | 16 | 1 | 4 | 8 | -1 | 0 | 1 |
| 17660 | 0 | 1 | 4 | -2 | 0 | 0 | -1 | 24 | 4 | 2 | -2 | 0 | 1 | 1 | 4 |
| 17680 | -1 | 12 | 1 | 0 | 2 | 6 | 0 | -24 | 18 | -8 | 0 | 2 | 2 | 2 | 4 |
| 17700 | 1 | 2 | 0 | 2 | 4 | 1 | 1 | 8 | 4 | -1 | 4 | 4 | 3 | 4 | 4 |
| 17720 | 0 | -6 | 2 | 0 | 1 | 12 | -1 | 0 | 4 | 2 | 1 | 2 | -15 | 0 | 0 |
| 17740 | 2 | 10 | 6 | 0 | 6 | 1 | -1 | 0 | 8 | 8 | 4 | 4 | 0 | 2 | 4 |
| 17760 | -1 | 2 | 4 | 4 | 0 | 6 | 1 | -4 | 2 | 1 | 1 | 0 | -4 | 6 | 2 |
| 17780 | 1 | 4 | 5 | -2 | -2 | 0 | -1 | 4 | 3 | 0 | 16 | 2 | 0 | 2 | 4 |
| 17800 | 1 | 0 | 4 | 2 | 2 | 1 | 1 | 8 | 0 | 1 | 6 | 4 | 1 | 2 | 2 |
| 17820 | 1 | 12 | 12 | 0 | 2 | 1 | 0 | 2 | 2 | -2 | -12 | 8 | -1 | 0 | 1 |
| 17840 | 4 | 2 | 2 | 2 | 1 | 0 | -14 | 0 | 1 | 2 | 2 | 2 | 1 | 2 | 4 |
| 17860 | -2 | 4 | 1 | 0 | -2 | 6 | 1 | 2 | 8 | -4 | 0 | 0 | 2 | 2 | 2 |
| 17880 | -1 | -6 | 0 | 0 | 4 | 4 | 30 | -4 | 1 | -6 | 2 | 4 | 1 | 4 | 2 |
| 17900 | 0 | 1 | 1 | 12 | 4 | 4 | -1 | 0 | 1 | 2 | 0 | 2 | 2 | 0 | 0 |
| 17920 | -1 | 4 | 1 | 0 | 3 | 4 | -3 | 4 | 8 | 1 | 0 | 4 | 0 | 2 | 1 |
| 17940 | 2 | 1 | 6 | -4 | 0 | 2 | 4 | 0 | 2 | 4 | 12 | 0 | -7 | 8 | 1 |
| 17960 | 1 | 2 | 4 | -2 | 2 | 4 | 2 | 4 | 1 | 0 | 8 | 0 | -1 | -4 | 12 |
| 17980 | -1 | 0 | 0 | 4 | 0 | 1 | -9 | 4 | 0 | 1 | 2 | 4 | 2 | 1 | 2 |

| $i \backslash j$ | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 11 | 13 | 14 | 15 | 17 | 18 | 19 |
|------------------|----|-----|----|----|-----|----|-----|-----|----|----|----|----|-----|----|----|
| 18000 | 1 | 2 | 4 | -4 | 8 | 2 | 0 | -8 | 4 | -1 | 1 | 8 | 1 | 0 | 2 |
| 18020 | 1 | 1 | 10 | 0 | -2 | 0 | 0 | 8 | 4 | 1 | 4 | 2 | -2 | 2 | 8 |
| 18040 | -1 | 8 | 1 | 0 | 4 | 1 | -1 | 0 | 4 | 1 | 0 | 20 | 2 | -2 | 1 |
| 18060 | -1 | 2 | 0 | -6 | 2 | 4 | 2 | 4 | 12 | 2 | 6 | 0 | -1 | 8 | 2 |
| 18080 | 0 | 2 | 0 | -2 | 1 | 2 | -1 | 0 | 2 | 2 | 2 | 8 | -3 | -4 | 0 |
| 18100 | 1 | 4 | 2 | 4 | 2 | 2 | 6 | 2 | 2 | 1 | 10 | 2 | 0 | 1 | 1 |
| 18120 | -1 | -8 | 4 | 0 | 0 | 1 | 1 | 0 | 1 | -1 | 1 | 0 | 1 | 2 | 12 |
| 18140 | 1 | 2 | 1 | 4 | 2 | 8 | -1 | 0 | 2 | 0 | 4 | 2 | 1 | 8 | 2 |
| 18160 | 2 | 0 | 4 | 8 | 2 | 6 | -1 | 4 | 0 | 2 | 4 | 0 | 2 | -4 | 0 |
| 18180 | -1 | 3 | 8 | -2 | 4 | 2 | 0 | 4 | 5 | 2 | 2 | 20 | 1 | 0 | 1 |
| 18200 | 3 | 2 | 2 | 8 | 1 | 0 | 1 | 12 | 1 | 4 | 2 | 10 | -1 | -2 | 16 |
| 18220 | 8 | 14 | 17 | 0 | -36 | 6 | -19 | 14 | 12 | -1 | 0 | 20 | 5 | 2 | 4 |
| 18240 | -4 | 4 | 0 | 4 | 2 | 2 | 4 | 0 | 1 | -5 | 1 | 12 | -3 | 4 | 0 |
| 18260 | 0 | 2 | 2 | -4 | -2 | 2 | -3 | 0 | 0 | 1 | 4 | 0 | 0 | 8 | 0 |
| 18280 | 2 | 4 | 2 | 8 | 4 | 3 | -1 | 4 | 8 | 1 | 12 | 2 | 0 | 2 | 2 |
| 18300 | -1 | 1 | 2 | 2 | 0 | 1 | 2 | 6 | 1 | -1 | -6 | 0 | -2 | 8 | 2 |
| 18320 | 2 | -4 | 4 | 0 | 0 | 12 | -15 | 8 | 2 | 0 | 2 | 4 | 1 | -4 | 2 |
| 18340 | -1 | 0 | 8 | 2 | -2 | 2 | 5 | 0 | 0 | -5 | 8 | 10 | 2 | 6 | 2 |
| 18360 | 2 | -2 | 4 | -2 | 2 | 1 | 0 | 20 | 1 | 1 | 1 | 0 | 2 | 0 | 1 |
| 18380 | 2 | 8 | 4 | -2 | -4 | 0 | 4 | 12 | 2 | 1 | -4 | 4 | -1 | 1 | 10 |
| 18400 | -1 | 2 | 16 | 0 | 1 | 2 | -12 | 4 | 0 | -1 | 0 | 4 | 4 | 6 | 4 |
| 18420 | 0 | 2 | 0 | 0 | 4 | 1 | 1 | 4 | 4 | -5 | -4 | 4 | 1 | 4 | 5 |
| 18440 | 0 | -6 | 1 | 4 | 2 | 8 | 5 | 0 | 1 | 1 | 1 | 2 | -1 | 2 | 0 |
| 18460 | -1 | 12 | 2 | 2 | 8 | 2 | 2 | 2 | 4 | 0 | 2 | 0 | 0 | 1 | 12 |
| 18480 | -1 | 2 | 4 | -2 | 0 | 8 | 1 | 0 | 0 | -1 | 14 | 0 | -10 | 14 | 2 |
| 18500 | 2 | 0 | 1 | 2 | 2 | 4 | 1 | 4 | 2 | 0 | -4 | 0 | -1 | 2 | 2 |
| 18520 | -3 | 0 | 3 | 0 | 2 | 4 | 1 | 16 | 0 | 1 | 2 | 4 | 2 | 12 | 1 |
| 18540 | -3 | 4 | 4 | 2 | 8 | 2 | 0 | 0 | 2 | -1 | -2 | 4 | 2 | 0 | 2 |
| 18560 | 2 | 8 | 2 | 2 | 1 | 0 | 1 | 4 | 0 | 2 | 2 | 0 | -4 | 4 | 16 |
| 18580 | -2 | 8 | 1 | 0 | -2 | 7 | -2 | 0 | 2 | -1 | 0 | 10 | 1 | 2 | 8 |
| 18600 | 2 | 2 | 0 | 0 | 4 | 4 | 5 | -4 | 2 | 1 | 2 | 8 | -1 | 4 | 2 |
| 18620 | 0 | 3 | 2 | 0 | 2 | 12 | 4 | 0 | 6 | 9 | 0 | 2 | -1 | 1 | 0 |
| 18640 | 1 | 12 | 2 | 4 | 1 | 2 | -4 | 0 | 4 | 1 | 2 | 24 | 0 | 2 | 2 |
| 18660 | -3 | 4 | 6 | -2 | 0 | 8 | 0 | 6 | 1 | 1 | 2 | 0 | 1 | 12 | 5 |
| 18680 | 2 | -14 | 4 | 4 | 1 | 2 | 1 | 8 | 1 | 0 | 2 | 2 | 3 | -2 | 4 |
| 18700 | -3 | 0 | 2 | 8 | 4 | 2 | -2 | 2 | 0 | -1 | 10 | 24 | 2 | 0 | 1 |
| 18720 | 10 | 4 | 0 | 0 | 12 | 6 | 0 | -4 | 1 | 2 | 4 | 8 | -2 | 0 | 2 |
| 18740 | 1 | 1 | 1 | 2 | 4 | 0 | -1 | 0 | 4 | 4 | -8 | 0 | -1 | 4 | 0 |
| 18760 | 2 | 4 | 2 | 0 | 2 | 0 | 0 | -20 | 22 | -5 | 0 | 0 | 2 | -4 | 2 |
| 18780 | 1 | 1 | 0 | 0 | 4 | 1 | 1 | 2 | 8 | -1 | -6 | 8 | -1 | 4 | 2 |
| 18800 | 0 | 8 | 5 | 2 | 1 | 6 | 1 | 0 | 2 | 1 | 4 | 4 | 13 | 0 | 0 |
| 18820 | 2 | 2 | 4 | 0 | -6 | 2 | 5 | 8 | 2 | -4 | 4 | 10 | 0 | 1 | 1 |
| 18840 | 1 | -2 | 4 | 2 | 0 | 4 | 20 | 0 | 6 | 0 | 2 | 0 | 2 | 4 | 1 |
| 18860 | 1 | 1 | 2 | 0 | -4 | 8 | -1 | 8 | 2 | 0 | -2 | 0 | 1 | 3 | 16 |
| 18880 | 1 | 0 | 6 | 2 | 4 | 4 | 2 | 4 | 0 | 1 | 4 | 2 | 1 | 2 | 1 |
| 18900 | 2 | 2 | 2 | 8 | 28 | 4 | 0 | 4 | 3 | -1 | 0 | 8 | -1 | 0 | 1 |
| 18920 | 4 | -2 | 2 | 0 | 1 | 0 | 1 | 12 | 12 | 1 | 1 | 4 | -2 | -8 | 16 |
| 18940 | 2 | 8 | 2 | 0 | 8 | 1 | 7 | 0 | 2 | 1 | 0 | 4 | 2 | 1 | 1 |
| 18960 | 1 | 2 | 0 | -2 | 4 | 2 | 1 | 4 | 2 | -1 | 2 | 0 | 3 | 2 | 1 |
| 18980 | 0 | 1 | 2 | -2 | 10 | 2 | -6 | 0 | 12 | 2 | -4 | 4 | 0 | 12 | 0 |

| $i \backslash j$ | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 10 | 11 | 13 | 14 | 15 | 17 | 18 | 19 |
|------------------|-----|-----|----|-----|-----|----|----|-----|----|----|-----|----|----|-----|----|
| 19000 | -1 | 2 | 2 | 4 | 16 | 2 | -1 | -4 | 8 | -1 | 4 | 2 | 0 | -4 | 8 |
| 19020 | 11 | 1 | 4 | 0 | 0 | 2 | 1 | 4 | 1 | 1 | 2 | 0 | -1 | 8 | 4 |
| 19040 | 20 | 24 | 12 | -12 | 12 | 12 | 1 | 0 | 1 | 0 | 2 | 4 | 8 | -4 | 2 |
| 19060 | 0 | 0 | 2 | 4 | -2 | 10 | -1 | 6 | 0 | -1 | 0 | 0 | 1 | 5 | 1 |
| 19080 | -7 | 4 | 4 | 2 | 2 | 7 | 0 | 36 | 8 | -2 | 1 | 8 | 0 | 0 | 2 |
| 19100 | 1 | 1 | 2 | 8 | 4 | 0 | -4 | 0 | 2 | 12 | 2 | 2 | 1 | 0 | 2 |
| 19120 | -1 | 2 | 2 | 0 | 6 | 4 | 4 | -4 | 4 | 0 | 0 | 20 | 1 | 8 | 1 |
| 19140 | -1 | 4 | 0 | 2 | 6 | 12 | 4 | 0 | 6 | 1 | -4 | 4 | -1 | 4 | 0 |
| 19160 | 0 | 8 | 1 | -2 | 0 | 2 | 2 | 0 | 2 | 4 | 1 | 0 | 1 | 2 | 0 |
| 19180 | -1 | 24 | 1 | 2 | -4 | 2 | 1 | 4 | 2 | -2 | 8 | 4 | 0 | 18 | 2 |
| 19200 | 2 | 8 | 4 | 2 | 0 | 1 | 2 | -40 | 1 | -3 | 2 | 0 | 1 | 2 | 1 |
| 19220 | 2 | 2 | 6 | 0 | -2 | 8 | 2 | 4 | 1 | 0 | 2 | 2 | -1 | 1 | 0 |
| 19240 | 1 | 0 | 2 | 2 | 5 | 2 | -1 | 0 | 0 | 2 | 2 | 2 | 0 | -14 | 1 |
| 19260 | 6 | 1 | 6 | -6 | 0 | 1 | 0 | 12 | 4 | -1 | 2 | 0 | 2 | 0 | 2 |
| 19280 | 1 | 4 | 4 | 4 | 1 | 0 | -1 | 8 | 2 | 2 | 6 | 4 | 1 | -8 | 4 |
| 19300 | -1 | 4 | 2 | 0 | 0 | 2 | -1 | 2 | 4 | 2 | 0 | 2 | 10 | 2 | 11 |
| 19320 | 0 | -18 | 0 | 0 | 2 | 4 | 2 | -12 | 2 | -1 | 2 | 4 | 2 | 8 | 2 |
| 19340 | 0 | 2 | 0 | -4 | 8 | 2 | 1 | 0 | 2 | 1 | -2 | 0 | -2 | 1 | 0 |
| 19360 | 1 | 4 | 0 | 2 | 2 | 2 | 1 | 8 | 8 | -1 | 2 | 0 | 0 | -4 | 1 |
| 19380 | -1 | 4 | 8 | -2 | 0 | 1 | 2 | 4 | 1 | 2 | 4 | 0 | 2 | 4 | 2 |
| 19400 | 2 | -8 | 1 | 4 | 2 | 2 | -6 | 4 | 4 | 0 | 18 | 12 | -1 | 12 | 2 |
| 19420 | -1 | 0 | 1 | 0 | 2 | 1 | -3 | 4 | 0 | -1 | 20 | 0 | 4 | 1 | 6 |
| 19440 | -9 | 2 | 4 | 2 | 4 | 1 | 0 | 0 | 2 | 0 | 2 | 4 | -1 | 0 | 4 |
| 19460 | 6 | 6 | 1 | 4 | -2 | 0 | -3 | 8 | 1 | 1 | 4 | 0 | -5 | 1 | 4 |
| 19480 | 0 | 12 | 1 | 0 | 1 | 2 | -1 | -4 | 8 | 2 | 0 | 4 | 2 | -6 | 4 |
| 19500 | -1 | 0 | 0 | 2 | 2 | 13 | 2 | 2 | 2 | 2 | 2 | 4 | -4 | 2 | 2 |
| 19520 | 0 | 2 | 2 | 0 | 2 | 4 | 1 | 0 | 1 | 2 | 1 | 2 | 1 | 2 | 0 |
| 19540 | -1 | 2 | 5 | 2 | -12 | 2 | 2 | 0 | 0 | -1 | 6 | 2 | 0 | 8 | 1 |
| 19560 | 1 | -2 | 2 | 4 | 0 | 6 | 2 | 4 | 1 | 0 | 1 | 0 | -1 | 4 | 2 |
| 19580 | 8 | 1 | 1 | -2 | 16 | 4 | 1 | 16 | 4 | 0 | 4 | 14 | -1 | 6 | 28 |
| 19600 | -26 | 0 | 1 | 6 | 1 | 8 | -1 | 8 | 0 | 1 | 28 | 2 | 4 | 8 | 2 |
| 19620 | 1 | 1 | 4 | 0 | 2 | 12 | 0 | 4 | 6 | -6 | -4 | 16 | -4 | 0 | 2 |
| 19640 | 1 | 4 | 2 | -4 | 4 | 0 | 0 | 0 | 2 | 3 | 2 | 2 | 1 | -2 | 8 |
| 19660 | -1 | 4 | 0 | 0 | -4 | 2 | 8 | 16 | 4 | 1 | 0 | 0 | 2 | 1 | 2 |
| 19680 | -1 | -4 | 0 | 2 | 4 | 1 | 1 | 4 | 4 | 11 | 2 | 8 | -1 | 0 | 1 |
| 19700 | 0 | 1 | 4 | 2 | 2 | 6 | -1 | 0 | 16 | 1 | 2 | 2 | -1 | 1 | 0 |
| 19720 | -4 | 8 | 0 | 0 | 4 | 1 | -2 | -4 | 4 | 1 | 8 | 2 | 0 | 2 | 1 |
| 19740 | 3 | 1 | 2 | 4 | 0 | 0 | 6 | 0 | 1 | -1 | 4 | 0 | 3 | 4 | 3 |
| 19760 | 2 | 16 | 1 | 2 | 1 | 4 | -2 | 4 | 6 | 0 | 1 | 0 | -1 | 4 | 4 |
| 19780 | 1 | 0 | 2 | 2 | -4 | 14 | 2 | 2 | 0 | -1 | 2 | 4 | 1 | 2 | 2 |
| 19800 | -1 | -2 | 8 | -4 | 2 | 2 | 0 | 4 | 2 | -1 | 1 | 8 | 4 | 0 | 1 |
| 19820 | 3 | 4 | 2 | 0 | 12 | 0 | 1 | 4 | 2 | 2 | 38 | 2 | 1 | 4 | 4 |
| 19840 | -1 | 2 | 1 | 0 | 1 | 8 | 1 | 0 | 4 | -1 | 0 | 0 | 1 | -4 | 6 |
| 19860 | -1 | 1 | 0 | -4 | 8 | 1 | 6 | 6 | 2 | 2 | 2 | 0 | 6 | 12 | 18 |
| 19880 | 0 | -34 | 6 | -12 | 2 | 12 | -1 | 0 | 5 | 4 | 0 | 4 | 2 | -2 | 0 |
| 19900 | 1 | 4 | 2 | 2 | -4 | 4 | 1 | 4 | 2 | -1 | 2 | 8 | 0 | 2 | 5 |
| 19920 | 1 | 4 | 4 | 0 | 0 | 1 | 4 | -4 | 8 | 1 | 1 | 0 | -1 | 2 | 2 |
| 19940 | 0 | 0 | 0 | -4 | -2 | 8 | -3 | 0 | 2 | 0 | 2 | 4 | 1 | 8 | 2 |
| 19960 | -1 | 0 | 1 | 0 | 2 | 4 | 1 | -4 | 0 | -1 | 2 | 0 | 1 | 2 | 1 |
| 19980 | 8 | 4 | 2 | 6 | 2 | 4 | 0 | 2 | 1 | -1 | -20 | 8 | -1 | 0 | 4 |